

## Safety Data Sheet

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-CY

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name            | Product identifier                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|---------------------------------------|---------|-----------------------------------------------------------------|
| Water           | CAS-No.: 7732-18-5                    | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol | CAS-No.: 57-55-6<br>EC-No.: 200-338-0 | 15 – 25 | Not classified                                                  |
| Resin           | -                                     | 5 – 15  | Not classified                                                  |
| Copper compound | -                                     | 1 – 5   | Not classified                                                  |
| Additive        | -                                     | 1 – 5   | Not classified                                                  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

## Safety Data Sheet

**5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                                    |                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures                   | : Stop leak if safe to do so. Absorb spillage to prevent material damage.                                                                                   |
| <b>For non-emergency personnel</b> |                                                                                                                                                             |
| Protective equipment               | : Wear recommended personal protective equipment.                                                                                                           |
| Emergency procedures               | : Ventilate spillage area.                                                                                                                                  |
| <b>For emergency responders</b>    |                                                                                                                                                             |
| Protective equipment               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures               | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

**7.2. Conditions for safe storage, including any incompatibilities**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

**7.3. Specific end use(s)**

Inkjet Printing ink.

## Safety Data Sheet

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## DNEL and PNEC

## 1,2-Propanediol (57-55-6)

## DNEL/DMEL (Workers)

|                                          |                       |
|------------------------------------------|-----------------------|
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>  |

## DNEL/DMEL (General population)

|                                          |                      |
|------------------------------------------|----------------------|
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup> |

## PNEC (Water)

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (freshwater)               | 260 mg/l |
| PNEC aqua (marine water)             | 26 mg/l  |
| PNEC aqua (intermittent, freshwater) | 183 mg/l |

## PNEC (Sediment)

|                              |                |
|------------------------------|----------------|
| PNEC sediment (freshwater)   | 572 mg/kg dwt  |
| PNEC sediment (marine water) | 57.2 mg/kg dwt |

## PNEC (Soil)

|           |              |
|-----------|--------------|
| PNEC soil | 50 mg/kg dwt |
|-----------|--------------|

## PNEC (STP)

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 20000 mg/l |
|-----------------------------|------------|

## 8.2. Exposure controls

## Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment.

## Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Skin protection

## Skin and body protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

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**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : Cyan.             |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

## Safety Data Sheet

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

#### 1,2-Propanediol (57-55-6)

|                       |                                                |
|-----------------------|------------------------------------------------|
| LD50 oral rat         | 22000 mg/kg bodyweight Animal: rat             |
| LD50 oral             | 8000 mg/kg                                     |
| LD50 dermal rabbit    | > 2000 mg/kg bodyweight Animal: rabbit         |
| LD50 dermal           | 20800 mg/kg                                    |
| LC50 Inhalation - Rat | > 44.9 mg/l air Animal: rat, Guideline: other: |

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

### 11.2. Information on other hazards

No additional information available

## Safety Data Sheet

**SECTION 12: Ecological information****12.1. Toxicity**

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

**12.2. Persistence and degradability****TA2-CY**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

**Safety Data Sheet**

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

**14.6. Special precautions for user**
**Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU-Regulations**
**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

## Safety Data Sheet

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |

## Safety Data Sheet

**Abbreviations and acronyms:**

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| LC50    | Median lethal concentration                                                  |
| LD50    | Median lethal dose                                                           |
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

**Full text of H- and EUH-statements:**

|        |                                                                           |
|--------|---------------------------------------------------------------------------|
| EUH208 | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |
|--------|---------------------------------------------------------------------------|

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## Safety Data Sheet

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-MG

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

| Name            | Product identifier                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|---------------------------------------|---------|-----------------------------------------------------------------|
| Water           | CAS-No.: 7732-18-5                    | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol | CAS-No.: 57-55-6<br>EC-No.: 200-338-0 | 15 – 25 | Not classified                                                  |
| Resin           | -                                     | 5 – 15  | Not classified                                                  |
| Additive        | -                                     | 1 – 5   | Not classified                                                  |
| Colourants      | -                                     | 1 – 5   | Not classified                                                  |

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

**4.2. Most important symptoms and effects, both acute and delayed**

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

**5.2. Special hazards arising from the substance or mixture**

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

**Safety Data Sheet****5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                                    |                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures                   | : Stop leak if safe to do so. Absorb spillage to prevent material damage.                                                                                   |
| <b>For non-emergency personnel</b> |                                                                                                                                                             |
| Protective equipment               | : Wear recommended personal protective equipment.                                                                                                           |
| Emergency procedures               | : Ventilate spillage area.                                                                                                                                  |
| <b>For emergency responders</b>    |                                                                                                                                                             |
| Protective equipment               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures               | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

**7.2. Conditions for safe storage, including any incompatibilities**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

**7.3. Specific end use(s)**

Inkjet Printing ink.

## Safety Data Sheet

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL and PNEC****1,2-Propanediol (57-55-6)****DNEL/DMEL (Workers)**

|                                          |                       |
|------------------------------------------|-----------------------|
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>  |

**DNEL/DMEL (General population)**

|                                          |                      |
|------------------------------------------|----------------------|
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup> |

**PNEC (Water)**

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (freshwater)               | 260 mg/l |
| PNEC aqua (marine water)             | 26 mg/l  |
| PNEC aqua (intermittent, freshwater) | 183 mg/l |

**PNEC (Sediment)**

|                              |                |
|------------------------------|----------------|
| PNEC sediment (freshwater)   | 572 mg/kg dwt  |
| PNEC sediment (marine water) | 57.2 mg/kg dwt |

**PNEC (Soil)**

|           |              |
|-----------|--------------|
| PNEC soil | 50 mg/kg dwt |
|-----------|--------------|

**PNEC (STP)**

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 20000 mg/l |
|-----------------------------|------------|

**8.2. Exposure controls****Appropriate engineering controls****Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Personal protection equipment****Personal protective equipment:**

Wear recommended personal protective equipment.

**Eye and face protection****Eye protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

**Skin protection****Skin and body protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

## Safety Data Sheet

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : Magenta.          |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

## Safety Data Sheet

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

**1,2-Propanediol (57-55-6)**

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| LD50 oral rat                     | 22000 mg/kg bodyweight Animal: rat                                                           |
| LD50 oral                         | 8000 mg/kg                                                                                   |
| LD50 dermal rabbit                | > 2000 mg/kg bodyweight Animal: rabbit                                                       |
| LD50 dermal                       | 20800 mg/kg                                                                                  |
| LC50 Inhalation - Rat             | > 44.9 mg/l air Animal: rat, Guideline: other:                                               |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

**11.2. Information on other hazards**

No additional information available

## Safety Data Sheet

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

#### 12.2. Persistence and degradability

##### TA2-MG

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

## Safety Data Sheet

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU-Regulations

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

## Safety Data Sheet

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |

## Safety Data Sheet

| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| CAS-No.                     | Chemical Abstract Service number                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disruptor                                                          |

| Full text of H- and EUH-statements: |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| EUH208                              | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**Safety Data Sheet**

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-YE

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name            | Product identifier                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|---------------------------------------|---------|-----------------------------------------------------------------|
| Water           | CAS-No.: 7732-18-5                    | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol | CAS-No.: 57-55-6<br>EC-No.: 200-338-0 | 15 – 25 | Not classified                                                  |
| Resin           | -                                     | 5 – 15  | Not classified                                                  |
| Colourants      | -                                     | 1 – 10  | Not classified                                                  |
| Additive        | -                                     | 1 – 5   | Not classified                                                  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

## Safety Data Sheet

**5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                                    |                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures                   | : Stop leak if safe to do so. Absorb spillage to prevent material damage.                                                                                   |
| <b>For non-emergency personnel</b> |                                                                                                                                                             |
| Protective equipment               | : Wear recommended personal protective equipment.                                                                                                           |
| Emergency procedures               | : Ventilate spillage area.                                                                                                                                  |
| <b>For emergency responders</b>    |                                                                                                                                                             |
| Protective equipment               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures               | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

**7.2. Conditions for safe storage, including any incompatibilities**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

**7.3. Specific end use(s)**

Inkjet Printing ink.

## Safety Data Sheet

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## DNEL and PNEC

## 1,2-Propanediol (57-55-6)

## DNEL/DMEL (Workers)

|                                          |                       |
|------------------------------------------|-----------------------|
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>  |

## DNEL/DMEL (General population)

|                                          |                      |
|------------------------------------------|----------------------|
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup> |

## PNEC (Water)

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (freshwater)               | 260 mg/l |
| PNEC aqua (marine water)             | 26 mg/l  |
| PNEC aqua (intermittent, freshwater) | 183 mg/l |

## PNEC (Sediment)

|                              |                |
|------------------------------|----------------|
| PNEC sediment (freshwater)   | 572 mg/kg dwt  |
| PNEC sediment (marine water) | 57.2 mg/kg dwt |

## PNEC (Soil)

|           |              |
|-----------|--------------|
| PNEC soil | 50 mg/kg dwt |
|-----------|--------------|

## PNEC (STP)

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 20000 mg/l |
|-----------------------------|------------|

## 8.2. Exposure controls

## Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment.

## Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Skin protection

## Skin and body protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

## Safety Data Sheet

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : Yellow.           |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

## Safety Data Sheet

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

**1,2-Propanediol (57-55-6)**

|                       |                                                |
|-----------------------|------------------------------------------------|
| LD50 oral rat         | 22000 mg/kg bodyweight Animal: rat             |
| LD50 oral             | 8000 mg/kg                                     |
| LD50 dermal rabbit    | > 2000 mg/kg bodyweight Animal: rabbit         |
| LD50 dermal           | 20800 mg/kg                                    |
| LC50 Inhalation - Rat | > 44.9 mg/l air Animal: rat, Guideline: other: |

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

**11.2. Information on other hazards**

No additional information available

## Safety Data Sheet

**SECTION 12: Ecological information****12.1. Toxicity**

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

**12.2. Persistence and degradability****TA2-YE**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

**Safety Data Sheet**

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

**14.6. Special precautions for user**
**Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU-Regulations**
**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

## Safety Data Sheet

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |

## Safety Data Sheet

**Abbreviations and acronyms:**

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| LC50    | Median lethal concentration                                                  |
| LD50    | Median lethal dose                                                           |
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

**Full text of H- and EUH-statements:**

|        |                                                                           |
|--------|---------------------------------------------------------------------------|
| EUH208 | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |
|--------|---------------------------------------------------------------------------|

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## Safety Data Sheet

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-BK

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name            | Product identifier                                                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|-----------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Water           | CAS-No.: 7732-18-5                                                    | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol | CAS-No.: 57-55-6<br>EC-No.: 200-338-0                                 | 10 – 20 | Not classified                                                  |
| Resin           | -                                                                     | 5 – 15  | Not classified                                                  |
| Additive        | -                                                                     | 1 – 5   | Not classified                                                  |
| Carbon Black    | CAS-No.: 1333-86-4<br>EC-No.: 215-609-9<br>REACH-no: 01-2119969946-13 | 1 – 5   | Not classified                                                  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

## Safety Data Sheet

**5.2. Special hazards arising from the substance or mixture**

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

**5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                  |                                                                           |
|------------------|---------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Absorb spillage to prevent material damage. |
|------------------|---------------------------------------------------------------------------|

**For non-emergency personnel**

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area.                        |

**For emergency responders**

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

**7.2. Conditions for safe storage, including any incompatibilities**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

## Safety Data Sheet

## 7.3. Specific end use(s)

Inkjet Printing ink.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## DNEL and PNEC

## 1,2-Propanediol (57-55-6)

## DNEL/DMEL (Workers)

|                                          |                       |
|------------------------------------------|-----------------------|
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup> |
|------------------------------------------|-----------------------|

|                                       |                      |
|---------------------------------------|----------------------|
| Long-term - local effects, inhalation | 10 mg/m <sup>3</sup> |
|---------------------------------------|----------------------|

## DNEL/DMEL (General population)

|                                          |                      |
|------------------------------------------|----------------------|
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup> |
|------------------------------------------|----------------------|

|                                       |                      |
|---------------------------------------|----------------------|
| Long-term - local effects, inhalation | 10 mg/m <sup>3</sup> |
|---------------------------------------|----------------------|

## PNEC (Water)

|                        |          |
|------------------------|----------|
| PNEC aqua (freshwater) | 260 mg/l |
|------------------------|----------|

|                          |         |
|--------------------------|---------|
| PNEC aqua (marine water) | 26 mg/l |
|--------------------------|---------|

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (intermittent, freshwater) | 183 mg/l |
|--------------------------------------|----------|

## PNEC (Sediment)

|                            |               |
|----------------------------|---------------|
| PNEC sediment (freshwater) | 572 mg/kg dwt |
|----------------------------|---------------|

|                              |                |
|------------------------------|----------------|
| PNEC sediment (marine water) | 57.2 mg/kg dwt |
|------------------------------|----------------|

## PNEC (Soil)

|           |              |
|-----------|--------------|
| PNEC soil | 50 mg/kg dwt |
|-----------|--------------|

## PNEC (STP)

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 20000 mg/l |
|-----------------------------|------------|

## 8.2. Exposure controls

## Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment.

## Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Safety Data Sheet

**Skin protection****Skin and body protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : Black.            |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

## Safety Data Sheet

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

#### 1,2-Propanediol (57-55-6)

|                       |                                                |
|-----------------------|------------------------------------------------|
| LD50 oral rat         | 22000 mg/kg bodyweight Animal: rat             |
| LD50 oral             | 8000 mg/kg                                     |
| LD50 dermal rabbit    | > 2000 mg/kg bodyweight Animal: rabbit         |
| LD50 dermal           | 20800 mg/kg                                    |
| LC50 Inhalation - Rat | > 44.9 mg/l air Animal: rat, Guideline: other: |

#### Carbon Black (1333-86-4)

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat         | > 8000 mg/kg Source: ECHA                                                                                          |
| LD50 oral             | 8000 mg/kg                                                                                                         |
| LD50 dermal rabbit    | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:, Guideline: other:, Guideline: other:, Guideline: other: |
| LC50 Inhalation - Rat | > 4.6 mg/m³                                                                                                        |

|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met) |

## Safety Data Sheet

Carcinogenicity : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans).

**Carbon Black (1333-86-4)**

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| IARC group             | 2B - Possibly carcinogenic to humans                                                |
| Reproductive toxicity  | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure   | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard      | : Not classified (Based on available data, the classification criteria are not met) |

**11.2. Information on other hazards**

No additional information available

**SECTION 12: Ecological information****12.1. Toxicity**

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met).                                    |

**12.2. Persistence and degradability****TA2-BK**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Regional waste regulation | : Disposal must be done according to official regulations. |
|---------------------------|------------------------------------------------------------|

## Safety Data Sheet

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 12* - waste ink containing dangerous substances                                       |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## Safety Data Sheet

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## EU-Regulations

## REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

## REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

## PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

## POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

## Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

## VOC Directive (2004/42)

VOC content : No data

## Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

## Abbreviations and acronyms:

|      |                                                                                                 |
|------|-------------------------------------------------------------------------------------------------|
| ADN  | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR  | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE  | Acute Toxicity Estimate                                                                         |
| BCF  | Bioconcentration factor                                                                         |
| BLV  | Biological limit value                                                                          |
| BOD  | Biochemical oxygen demand (BOD)                                                                 |
| COD  | Chemical oxygen demand (COD)                                                                    |
| DMEL | Derived Minimal Effect level                                                                    |

## Safety Data Sheet

### Abbreviations and acronyms:

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| DNEL    | Derived-No Effect Level                                                      |
| EC-No.  | European Community number                                                    |
| EC50    | Median effective concentration                                               |
| EN      | European Standard                                                            |
| IARC    | International Agency for Research on Cancer                                  |
| IATA    | International Air Transport Association                                      |
| IMDG    | International Maritime Dangerous Goods                                       |
| LC50    | Median lethal concentration                                                  |
| LD50    | Median lethal dose                                                           |
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

### Full text of H- and EUH-statements:

|        |                                                                           |
|--------|---------------------------------------------------------------------------|
| EUH208 | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |
|--------|---------------------------------------------------------------------------|

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## Safety Data Sheet

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-WH

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.  
EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3. Other hazards**

No additional information available

**Safety Data Sheet**
**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**

| Name                               | Product identifier                                                                                   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------|------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Water                              | CAS-No.: 7732-18-5                                                                                   | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol                    | CAS-No.: 57-55-6<br>EC-No.: 200-338-0                                                                | 10 – 20 | Not classified                                                  |
| Resin                              | -                                                                                                    | 5 – 15  | Not classified                                                  |
| Titanium oxide (TiO <sub>2</sub> ) | CAS-No.: 13463-67-7<br>EC-No.: 236-675-5<br>EC Index-No.: 022-006-00-2<br>REACH-no: 01-2119489379-17 | 5 – 15  | Not classified                                                  |
| Additive                           | -                                                                                                    | 1 – 5   | Not classified                                                  |
| 2-Propanol, 1-propoxy-             | CAS-No.: 1569-01-3<br>EC-No.: 216-372-4                                                              | 1 – 5   | Eye Irrit. 2, H319                                              |

Full text of H- and EUH-statements: see section 16

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

**4.2. Most important symptoms and effects, both acute and delayed**

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## Safety Data Sheet

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

**5.2. Special hazards arising from the substance or mixture**

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

**5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                  |                                                                           |
|------------------|---------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Absorb spillage to prevent material damage. |
|------------------|---------------------------------------------------------------------------|

**For non-emergency personnel**

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area.                        |

**For emergency responders**

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. |
|-------------------------------|------------------------------------------------------------------------------------|

## Safety Data Sheet

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
 Storage conditions : Keep cool. Protect from sunlight.  
 Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

Inkjet Printing ink.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL and PNEC

| 1,2-Propanediol (57-55-6)                |                           |
|------------------------------------------|---------------------------|
| DNEL/DMEL (Workers)                      |                           |
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup>     |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>      |
| DNEL/DMEL (General population)           |                           |
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup>      |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>      |
| PNEC (Water)                             |                           |
| PNEC aqua (freshwater)                   | 260 mg/l                  |
| PNEC aqua (marine water)                 | 26 mg/l                   |
| PNEC aqua (intermittent, freshwater)     | 183 mg/l                  |
| PNEC (Sediment)                          |                           |
| PNEC sediment (freshwater)               | 572 mg/kg dwt             |
| PNEC sediment (marine water)             | 57.2 mg/kg dwt            |
| PNEC (Soil)                              |                           |
| PNEC soil                                | 50 mg/kg dwt              |
| PNEC (STP)                               |                           |
| PNEC sewage treatment plant              | 20000 mg/l                |
| 2-Propanol, 1-propoxy- (1569-01-3)       |                           |
| DNEL/DMEL (Workers)                      |                           |
| Long-term - systemic effects, dermal     | 82.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 263 mg/m <sup>3</sup>     |

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**2-Propanol, 1-propoxy- (1569-01-3)****DNEL/DMEL (General population)**

|                                          |                         |
|------------------------------------------|-------------------------|
| Long-term - systemic effects, oral       | 11 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 38 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 36 mg/kg bodyweight/day |

**PNEC (Water)**

|                                      |           |
|--------------------------------------|-----------|
| PNEC aqua (freshwater)               | 0.1 mg/l  |
| PNEC aqua (marine water)             | 0.01 mg/l |
| PNEC aqua (intermittent, freshwater) | 1 mg/l    |

**PNEC (Sediment)**

|                              |                  |
|------------------------------|------------------|
| PNEC sediment (freshwater)   | 0.386 mg/kg dwt  |
| PNEC sediment (marine water) | 0.0386 mg/kg dwt |

**PNEC (Soil)**

|           |                  |
|-----------|------------------|
| PNEC soil | 0.0185 mg/kg dwt |
|-----------|------------------|

**PNEC (STP)**

|                             |        |
|-----------------------------|--------|
| PNEC sewage treatment plant | 4 mg/l |
|-----------------------------|--------|

**8.2. Exposure controls****Appropriate engineering controls****Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Personal protection equipment****Personal protective equipment:**

Wear recommended personal protective equipment.

**Eye and face protection****Eye protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

**Skin protection****Skin and body protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

## Safety Data Sheet

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : white.            |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1.1 – 1.2         |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions.

## Safety Data Sheet

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### 1,2-Propanediol (57-55-6)

|                       |                                                |
|-----------------------|------------------------------------------------|
| LD50 oral rat         | 22000 mg/kg bodyweight Animal: rat             |
| LD50 oral             | 8000 mg/kg                                     |
| LD50 dermal rabbit    | > 2000 mg/kg bodyweight Animal: rabbit         |
| LD50 dermal           | 20800 mg/kg                                    |
| LC50 Inhalation - Rat | > 44.9 mg/l air Animal: rat, Guideline: other: |

#### Titanium oxide (TiO<sub>2</sub>) (13463-67-7)

|                                   |                                                                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                     | > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LD50 oral                         | 5000 mg/kg                                                                                                                                                                               |
| LC50 Inhalation - Rat (Dust/Mist) | > 6.82 mg/l Source: ECHA                                                                                                                                                                 |

#### 2-Propanol, 1-propoxy- (1569-01-3)

|                    |                                                                              |
|--------------------|------------------------------------------------------------------------------|
| LD50 oral rat      | 2800 – 3000 mg/kg Source: Patty&#39;s Industrial Hygiene and Toxicology HSDB |
| LD50 oral          | 2510 mg/kg                                                                   |
| LD50 dermal rabbit | 3550 mg/kg Source: Patty&#39;s Industrial Hygiene and Toxicology HSDB        |
| LD50 dermal        | 2820 mg/kg                                                                   |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
 Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
 Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
 Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
 Carcinogenicity : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans).

#### Titanium oxide (TiO<sub>2</sub>) (13463-67-7)

|            |                                      |
|------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
|------------|--------------------------------------|

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
 STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

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|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard      | : Not classified (Based on available data, the classification criteria are not met) |

**11.2. Information on other hazards**

No additional information available

**SECTION 12: Ecological information****12.1. Toxicity**

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

**12.2. Persistence and degradability****TA2-WH**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

## Safety Data Sheet

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU-Regulations

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |

## Safety Data Sheet

### Abbreviations and acronyms:

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| IMDG    | International Maritime Dangerous Goods                                       |
| LC50    | Median lethal concentration                                                  |
| LD50    | Median lethal dose                                                           |
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

### Full text of H- and EUH-statements:

|              |                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2                                                    |
| H319         | Causes serious eye irritation.                                                                   |
| EUH208       | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.                        |
| EUH211       | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**Safety Data Sheet**

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-OR

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name            | Product identifier                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|---------------------------------------|---------|-----------------------------------------------------------------|
| Water           | CAS-No.: 7732-18-5                    | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol | CAS-No.: 57-55-6<br>EC-No.: 200-338-0 | 15 – 25 | Not classified                                                  |
| Resin           | -                                     | 5 – 15  | Not classified                                                  |
| Additive        | -                                     | 1 – 10  | Not classified                                                  |
| Colourants      | -                                     | 1 – 10  | Not classified                                                  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

**Safety Data Sheet****5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                                    |                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures                   | : Stop leak if safe to do so. Absorb spillage to prevent material damage.                                                                                   |
| <b>For non-emergency personnel</b> |                                                                                                                                                             |
| Protective equipment               | : Wear recommended personal protective equipment.                                                                                                           |
| Emergency procedures               | : Ventilate spillage area.                                                                                                                                  |
| <b>For emergency responders</b>    |                                                                                                                                                             |
| Protective equipment               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures               | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

**7.2. Conditions for safe storage, including any incompatibilities**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

**7.3. Specific end use(s)**

Inkjet Printing ink.

## Safety Data Sheet

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## DNEL and PNEC

## 1,2-Propanediol (57-55-6)

## DNEL/DMEL (Workers)

|                                          |                       |
|------------------------------------------|-----------------------|
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>  |

## DNEL/DMEL (General population)

|                                          |                      |
|------------------------------------------|----------------------|
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup> |

## PNEC (Water)

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (freshwater)               | 260 mg/l |
| PNEC aqua (marine water)             | 26 mg/l  |
| PNEC aqua (intermittent, freshwater) | 183 mg/l |

## PNEC (Sediment)

|                              |                |
|------------------------------|----------------|
| PNEC sediment (freshwater)   | 572 mg/kg dwt  |
| PNEC sediment (marine water) | 57.2 mg/kg dwt |

## PNEC (Soil)

|           |              |
|-----------|--------------|
| PNEC soil | 50 mg/kg dwt |
|-----------|--------------|

## PNEC (STP)

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 20000 mg/l |
|-----------------------------|------------|

## 8.2. Exposure controls

## Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment.

## Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Skin protection

## Skin and body protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

## Safety Data Sheet

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : orange.           |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

## Safety Data Sheet

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

**1,2-Propanediol (57-55-6)**

|                       |                                                |
|-----------------------|------------------------------------------------|
| LD50 oral rat         | 22000 mg/kg bodyweight Animal: rat             |
| LD50 oral             | 8000 mg/kg                                     |
| LD50 dermal rabbit    | > 2000 mg/kg bodyweight Animal: rabbit         |
| LD50 dermal           | 20800 mg/kg                                    |
| LC50 Inhalation - Rat | > 44.9 mg/l air Animal: rat, Guideline: other: |

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

**11.2. Information on other hazards**

No additional information available

## Safety Data Sheet

**SECTION 12: Ecological information****12.1. Toxicity**

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

**12.2. Persistence and degradability****TA2-OR**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

## Safety Data Sheet

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

**14.6. Special precautions for user****Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU-Regulations****REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

## Safety Data Sheet

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |

## Safety Data Sheet

**Abbreviations and acronyms:**

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| LC50    | Median lethal concentration                                                  |
| LD50    | Median lethal dose                                                           |
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

**Full text of H- and EUH-statements:**

|        |                                                                           |
|--------|---------------------------------------------------------------------------|
| EUH208 | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |
|--------|---------------------------------------------------------------------------|

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**Safety Data Sheet**

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-RE

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

| Name            | Product identifier                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|---------------------------------------|---------|-----------------------------------------------------------------|
| Water           | CAS-No.: 7732-18-5                    | 50 – 60 | Not classified                                                  |
| 1,2-Propanediol | CAS-No.: 57-55-6<br>EC-No.: 200-338-0 | 15 – 25 | Not classified                                                  |
| Resin           | -                                     | 5 – 15  | Not classified                                                  |
| Additive        | -                                     | 1 – 10  | Not classified                                                  |
| Colourants      | -                                     | 1 – 10  | Not classified                                                  |

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

**4.2. Most important symptoms and effects, both acute and delayed**

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

**5.2. Special hazards arising from the substance or mixture**

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

## Safety Data Sheet

**5.3. Advice for firefighters**

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                                    |                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures                   | : Stop leak if safe to do so. Absorb spillage to prevent material damage.                                                                                   |
| <b>For non-emergency personnel</b> |                                                                                                                                                             |
| Protective equipment               | : Wear recommended personal protective equipment.                                                                                                           |
| Emergency procedures               | : Ventilate spillage area.                                                                                                                                  |
| <b>For emergency responders</b>    |                                                                                                                                                             |
| Protective equipment               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures               | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

**7.2. Conditions for safe storage, including any incompatibilities**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

**7.3. Specific end use(s)**

Inkjet Printing ink.

## Safety Data Sheet

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL and PNEC****1,2-Propanediol (57-55-6)****DNEL/DMEL (Workers)**

|                                          |                       |
|------------------------------------------|-----------------------|
| Long-term - systemic effects, inhalation | 168 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup>  |

**DNEL/DMEL (General population)**

|                                          |                      |
|------------------------------------------|----------------------|
| Long-term - systemic effects, inhalation | 50 mg/m <sup>3</sup> |
| Long-term - local effects, inhalation    | 10 mg/m <sup>3</sup> |

**PNEC (Water)**

|                                      |          |
|--------------------------------------|----------|
| PNEC aqua (freshwater)               | 260 mg/l |
| PNEC aqua (marine water)             | 26 mg/l  |
| PNEC aqua (intermittent, freshwater) | 183 mg/l |

**PNEC (Sediment)**

|                              |                |
|------------------------------|----------------|
| PNEC sediment (freshwater)   | 572 mg/kg dwt  |
| PNEC sediment (marine water) | 57.2 mg/kg dwt |

**PNEC (Soil)**

|           |              |
|-----------|--------------|
| PNEC soil | 50 mg/kg dwt |
|-----------|--------------|

**PNEC (STP)**

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 20000 mg/l |
|-----------------------------|------------|

**8.2. Exposure controls****Appropriate engineering controls****Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Personal protection equipment****Personal protective equipment:**

Wear recommended personal protective equipment.

**Eye and face protection****Eye protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

**Skin protection****Skin and body protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

## Safety Data Sheet

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : red.              |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

## Safety Data Sheet

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

#### 1,2-Propanediol (57-55-6)

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| LD50 oral rat                     | 22000 mg/kg bodyweight Animal: rat                                                           |
| LD50 oral                         | 8000 mg/kg                                                                                   |
| LD50 dermal rabbit                | > 2000 mg/kg bodyweight Animal: rabbit                                                       |
| LD50 dermal                       | 20800 mg/kg                                                                                  |
| LC50 Inhalation - Rat             | > 44.9 mg/l air Animal: rat, Guideline: other:                                               |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

### 11.2. Information on other hazards

No additional information available

## Safety Data Sheet

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

#### 12.2. Persistence and degradability

##### TA2-RE

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

**Safety Data Sheet**

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

**14.6. Special precautions for user**
**Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU-Regulations**
**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

## Safety Data Sheet

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |

## Safety Data Sheet

| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| CAS-No.                     | Chemical Abstract Service number                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disruptor                                                          |

| Full text of H- and EUH-statements: |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| EUH208                              | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## Safety Data Sheet

Issue date: 5/28/2026 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : TA2-OP

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH208 - 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction.

**2.3. Other hazards**

No additional information available

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name                      | Product identifier                      | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------|-----------------------------------------|---------|-----------------------------------------------------------------|
| Water                     | CAS-No.: 7732-18-5                      | 55 – 65 | Not classified                                                  |
| 1,3-Butanediol, 3-methyl- | CAS-No.: 2568-33-4<br>EC-No.: 459-270-7 | 15 – 25 | Not classified                                                  |
| Additive                  | -                                       | 1 – 10  | Not classified                                                  |
| 1,2-Hexanediol            | CAS-No.: 6920-22-5<br>EC-No.: 230-029-6 | 5 – 15  | Eye Irrit. 2, H319                                              |
| Resin                     | -                                       | 1 – 10  | Not classified                                                  |

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|                  |                               |
|------------------|-------------------------------|
| Explosion hazard | : No direct explosion hazard. |
|------------------|-------------------------------|

## Safety Data Sheet

Hazardous decomposition products in case of fire : Toxic fumes may be released.

**5.3. Advice for firefighters**

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

General measures : Stop leak if safe to do so. Absorb spillage to prevent material damage.

**For non-emergency personnel**

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

**For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Store always product in container of same material as original container.

**7.3. Specific end use(s)**

Inkjet Printing ink.

## Safety Data Sheet

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL and PNEC****1,2-Hexanediol (6920-22-5)****DNEL/DMEL (Workers)**

|                                          |                           |
|------------------------------------------|---------------------------|
| Long-term - systemic effects, dermal     | 17.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 123 mg/m <sup>3</sup>     |

**DNEL/DMEL (General population)**

|                                          |                          |
|------------------------------------------|--------------------------|
| Long-term - systemic effects, oral       | 8.8 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 30 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 8.8 mg/kg bodyweight/day |

**1,3-Butanediol, 3-methyl- (2568-33-4)****DNEL/DMEL (Workers)**

|                                          |                           |
|------------------------------------------|---------------------------|
| Long-term - systemic effects, dermal     | 4.67 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 16.4 mg/m <sup>3</sup>    |

**DNEL/DMEL (General population)**

|                                          |                           |
|------------------------------------------|---------------------------|
| Long-term - systemic effects, oral       | 1.67 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2.9 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 1.67 mg/kg bodyweight/day |

**8.2. Exposure controls****Appropriate engineering controls****Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Personal protection equipment****Personal protective equipment:**

Wear recommended personal protective equipment.

**Eye and face protection****Eye protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

**Skin protection****Skin and body protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

**Hand protection:**

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves.

## Safety Data Sheet

**Respiratory protection****Respiratory protection:**

No respiratory protection needed under normal use conditions. However, in case of direct contact to the ink, use a respiratory protection.

**Environmental exposure controls****Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : Colourless.       |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

**9.2. Other information****Other safety characteristics**

VOC content : No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions.

## Safety Data Sheet

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

#### 1,2-Hexanediol (6920-22-5)

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat         | 6166 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 5197 - 7410                  |
| LD50 dermal rat       | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LC50 Inhalation - Rat | > 7.015 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)                                                        |

#### 1,3-Butanediol, 3-methyl- (2568-33-4)

|                 |                                                                                                                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral       | > 5000 mg/kg bodyweight Animal: mouse, Guideline: other:                                                                                                                                                                 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other: |

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

### 11.2. Information on other hazards

No additional information available

## Safety Data Sheet

**SECTION 12: Ecological information****12.1. Toxicity**

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

**12.2. Persistence and degradability****TA2-OP**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

**Safety Data Sheet**

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

**14.6. Special precautions for user**
**Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU-Regulations**
**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

## Safety Data Sheet

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : No data

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand (BOD)                                                                 |
| COD    | Chemical oxygen demand (COD)                                                                    |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |

## Safety Data Sheet

**Abbreviations and acronyms:**

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| LC50    | Median lethal concentration                                                  |
| LD50    | Median lethal dose                                                           |
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

**Full text of H- and EUH-statements:**

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2                             |
| H319         | Causes serious eye irritation.                                            |
| EUH208       | 1,2-benzisothiazol-3(2H)-one Contains . May produce an allergic reaction. |

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

TA2-CL  
LIQUID, CLEANING (TA2-CL) 100ML  
LIQUID, CLEANING (TA2-CL) SV 500ML

## Safety Data Sheet

Issue date: 5/28/2026 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : TA2-CL  
LIQUID, CLEANING (TA2-CL) 100ML  
LIQUID, CLEANING (TA2-CL) SV 500ML

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Main use category : Professional use  
Function or use category : Cleaning/washing agents and additives

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

No additional information available

**TA2-CL**  
**LIQUID, CLEANING (TA2-CL) 100ML**  
**LIQUID, CLEANING (TA2-CL) SV 500ML**

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name                                       | Product identifier                      | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------|-----------------------------------------|---------|-----------------------------------------------------------------|
| Water                                      | CAS-No.: 7732-18-5                      | 45 – 55 | Not classified                                                  |
| Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis- | CAS-No.: 112-27-6<br>EC-No.: 203-953-2  | 40 – 50 | Not classified                                                  |
| 1,2-Hexanediol                             | CAS-No.: 6920-22-5<br>EC-No.: 230-029-6 | 1 – 5   | Eye Irrit. 2, H319                                              |

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment. |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

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### 5.3. Advice for firefighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                                    |                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures                   | : Stop leak if safe to do so. Absorb spillage to prevent material damage.                                                                                   |
| <b>For non-emergency personnel</b> |                                                                                                                                                             |
| Protective equipment               | : Wear recommended personal protective equipment.                                                                                                           |
| Emergency procedures               | : Ventilate spillage area.                                                                                                                                  |
| <b>For emergency responders</b>    |                                                                                                                                                             |
| Protective equipment               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures               | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Packaging materials | : Store always product in container of same material as original container. |

### 7.3. Specific end use(s)

Inkjet Printing ink.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL and PNEC

###### 1,2-Hexanediol (6920-22-5)

###### DNEL/DMEL (Workers)

|                                          |                           |
|------------------------------------------|---------------------------|
| Long-term - systemic effects, dermal     | 17.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 123 mg/m <sup>3</sup>     |

###### DNEL/DMEL (General population)

|                                          |                          |
|------------------------------------------|--------------------------|
| Long-term - systemic effects, oral       | 8.8 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 30 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 8.8 mg/kg bodyweight/day |

#### 8.2. Exposure controls

##### Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protection equipment

###### Personal protective equipment:

Wear recommended personal protective equipment.

##### Eye and face protection

###### Eye protection:

Not required under suitable use as setting the cleaning liquid on the printer. However, in case of direct contact to the cleaning liquid, wear EN166 approved safety glasses or chemical splash goggles.

##### Skin protection

###### Skin and body protection:

Not required under suitable use as setting the cleaning liquid on the printer. However, in case of direct contact to the cleaning liquid, wear protective clothing.

###### Hand protection:

Not required under suitable use as setting the cleaning liquid on the printer. However, in case of direct contact to the cleaning liquid, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

##### Respiratory protection

###### Respiratory protection:

In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

##### Environmental exposure controls

###### Environmental exposure controls:

Avoid release to the environment.

###### Other information:

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Colour                                          | : Colourless.       |
| Odour                                           | : characteristic.   |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : > 94 °C           |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH                                              | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density                                         | : Not available     |
| Relative density                                | : 1 – 1.1           |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

#### 9.2. Other information

##### Other safety characteristics

|             |           |
|-------------|-----------|
| VOC content | : No data |
|-------------|-----------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions.

#### 10.5. Incompatible materials

No additional information available

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### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

#### Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis- (112-27-6)

|                       |                             |
|-----------------------|-----------------------------|
| LD50 oral rat         | 17000 mg/kg Source: IUCLID  |
| LD50 dermal rabbit    | > 5000 mg/kg Source: IUCLID |
| LC50 Inhalation - Rat | > 5.2 mg/l air Animal: rat  |

#### 1,2-Hexanediol (6920-22-5)

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat         | 6166 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 5197 - 7410                  |
| LD50 dermal rat       | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LC50 Inhalation - Rat | > 7.015 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)                                                        |

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)          |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)          |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)          |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

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### 12.2. Persistence and degradability

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|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 13 - waste ink other than those mentioned in 08 03 12                                 |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                  | IMDG          | IATA          | ADN           | RID           |
|--------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>  |               |               |               |               |
| Not regulated for transport          |               |               |               |               |
| <b>14.2. UN proper shipping name</b> |               |               |               |               |
| Not regulated                        | Not regulated | Not regulated | Not regulated | Not regulated |

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| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU-Regulations

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : No data

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate                                                                         |
| BCF                         | Bioconcentration factor                                                                         |
| BLV                         | Biological limit value                                                                          |
| BOD                         | Biochemical oxygen demand (BOD)                                                                 |
| COD                         | Chemical oxygen demand (COD)                                                                    |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC-No.                      | European Community number                                                                       |
| EC50                        | Median effective concentration                                                                  |
| EN                          | European Standard                                                                               |
| IARC                        | International Agency for Research on Cancer                                                     |
| IATA                        | International Air Transport Association                                                         |
| IMDG                        | International Maritime Dangerous Goods                                                          |
| LC50                        | Median lethal concentration                                                                     |
| LD50                        | Median lethal dose                                                                              |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                            |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| CAS-No.                     | Chemical Abstract Service number                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disruptor                                                          |

| Full text of H- and EUH-statements: |                                               |
|-------------------------------------|-----------------------------------------------|
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2 |
| H319                                | Causes serious eye irritation.                |

RDG Safety Data Sheet (SDS), EU GHS Ver

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.