

## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

TA-YE

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

Inkjet Printing

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

Manufacturer's name: Roland DG Corporation

Address: 1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi, Shizuoka-ken, 431-2103

Phone: + 81-53-484-1224 FAX: + 81-53-484-1226

Supplier: ROLAND DG EMEA NV

Address: BELL-TELEPHONELAAN 2G

B-2440 GEEL

BELGIUM

Phone: +32 14575911

#### 1.4. Emergency telephone

<b>IE</b>	
National Poisons Information Centre	+353 18 09 25 66
Poisons Information Centre of Ireland	+353 18 37 99 64 (medical professionals) +353 18 09 21 66 (public)

## 2. Hazard identification

### 2.1. Classification of the substance or mixture

This product is not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP).

### 2.2. GHS label elements, including precautionary statements

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

### 2.3. Other hazards

Eyes:	Contact with eye will be irritating.
Skin:	Contact with skin may cause irritation, swelling or redness, allergic sensitization.
Inhalation:	Exposure to vapors (mist) will cause respiratory irritation and anesthesia.
Ingestion:	May cause injury of mouth, throat, and stomach.
Chronic Health Hazards:	Repeated skin contact may cause a persistent irritation or dermatitis.
Carcinogenicity:	None of the ingredients in this ink is listed by IARC as a carcinogen. (1,2A and 2B)
Others	No information

## 3. Composition/information on ingredients

Chemical nature: mixture

Composition	CAS No.	EC No.	EU registration No.	% By Weight	Classification EC No.1272/2008
Colorant	CBI	CBI	N/A for the moment	1-4	Not classified as hazardous
Organic material	CBI	CBI	N/A for the moment	25-45	Not classified as hazardous
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	N/A for the moment	<0.05	Acute Tox. 4: H302 Skin Irrit. 2: H315 Eye Dam. 1: H318 Skin Sens. 1: H317 Aquatic Acute 1: H400
Water	7732-18-5	231-791-2	N/A for the moment	55-75	Not classified as hazardous

† CBI: Confidential Business Information

‡ For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

Eyes:	In case of contact, immediately flush eyes with plenty of water for several minutes. Hold eyelids open during flushing. Call a physician.
Skin:	In case of contact, immediately flush with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. If swelling or redness occurs, call a physician.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Call a physician.  
Ingestion: If swallowed, DO NOT induce vomiting. Seek immediate medical advice.

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

Eyes: Contact with eye will be irritating.  
Skin: Contact with skin may cause irritation, swelling or redness, allergic sensitization.  
Inhalation: Exposure to vapors (mist) will cause respiratory irritation and anesthesia.  
Ingestion: May cause injury of mouth, throat, and stomach.

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

No information

### **5. Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet.

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

Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

Flash Point: > 94deg.C

#### **5.3. Advice for firefighters**

Wear special chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residues. Applying direct water may be dangerous because fire may expand to surroundings.

### **6. Accidental release measures**

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

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus and wear appropriate personal protective equipment.

#### **6.2. Environmental precautions**

Wipe off spillage. Prevent liquid from entering sewers, waterways or low areas.

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

Sweep up material and dispose as waste following local regulations.

#### **6.4. Reference to other sections**

Refer to “Section 8 Exposure controls/ personal protection” and “Section 13 Disposal consideration” as appropriate.

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact with eyes, skin and clothing. Use proper ventilation and no fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of reach of children and do not drink.

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

Keep containers tightly closed. Do not store the product in high or freezing temperatures. Keep the product out of direct sunlight. Do not store the product with metals, amines, free radical initiators, oxidising agents.

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

Inkjet Printing

## **8. Exposure controls/ personal protection**

### **8.1. Control parameters**

Occupational Exposure Limits:

Derived No-Effect Level (DNEL)

### **8.2. Exposure controls**

Appropriate engineering controls

Provide general and/or local exhaust ventilation.

Respiratory protection:

Not required when sufficient ventilation is provided. 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).

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. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

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.

Skin 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.

**Hygiene measures:**

Wash hands after handling. In case contact with clothing, wash before reuse. Do not eat, drink or smoke in handling or storage area.

**Environmental exposure control:**

Avoid release to the environment.

## 9. Physical and chemical properties

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

**Appearance:**----- Physical state: liquid Colour: yellow

**Odour:**----- slight odor

**Odour threshold:**----- Not defined

**pH:**----- 7-9

**Melting point/freezing point:**----- No data available

**Initial boiling point and boiling range:**----- No data available

**Flash point:**----- > 94 °C

**Evaporation rate:**----- No data available

**Flammability (solid, gas):**----- Not applicable

**Upper/lower flammability or explosive limits:**---- No data available

**Vapor pressure:**----- No data available

**Vapor density:**----- No data available

**Relative density:**----- 1.0-1.1

**Solubility(ies):**----- Water solubility: Slightly soluble

**Partition coefficient: n-octanol/water:**----- No data available

**Auto-ignition temperature:**----- No data available

**Decomposition temperature:**----- No data available

**Viscosity:**----- No data available

**Explosive properties:**----- No data available

**Oxidizing properties:**----- No data available

**9.2. Other information**----- No data available

## 10. Stability and reactivity

### 10.1. Reactivity:

No reactivity under normal temperature.

### 10.2. Chemical stability:

Stable under normal temperature.

### 10.3. Possibility of hazardous reactions:

Not expected.

**10.4. Conditions to avoid:**

Elevated temperatures/heat, UV light, when not in use.

**10.5. Incompatible materials:**

Avoid contact with acids, amines, free radical initiators, oxidizing agents.

**10.6. Hazardous decomposition products:**

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

**11. Toxicological information****11.1. Information on toxicological effects****Acute toxicity:**

1,2-benzisothiazol-3(2H)-one

LD50(oral) : no data available, LD50 (dermal): no data available, LD50 (Inhal.): no data available

**Serious eye damage/eye irritation:**

Causes serious eye damage.

- 1,2-benzisothiazol-3(2H)-one

**Skin corrosion/irritation:**

Causes skin irritation.

- 1,2-benzisothiazol-3(2H)-one

**Respiratory or skin sensitisation:**

May cause an allergic skin reaction.

- 1,2-benzisothiazol-3(2H)-one

**Germ cell mutagenicity:**

no data available.

**Reproductive toxicity:**

no data available.

**Carcinogenicity:**

None of the ingredients in this ink is listed by IARC as a carcinogen. (1, 2A and 2B)

**Specific target organ toxicity - single exposure, (STOT-SE):**

no data available.

**Specific target organ toxicity - repeat exposure, (STOT-RE):**

no data available.

**Aspiration hazard:**

no data available.

## 12. Ecological information

### 12.1. Toxicity:

Very toxic to aquatic life.

- 1,2-benzisothiazol-3(2H)-one

### 12.2. Persistence and degradability:

No data available

### 12.3. Bioaccumulative potential:

No data available

### 12.4. Mobility in soil:

No data available

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

Has not carried out PBT and vPvB assessment.

### 12.6. Other adverse effects:

No data available

## 13. Disposal considerations

### 13.1. Waste treatment methods

Product: Dispose as hazardous waste. Packaging with product residues must be disposed of under the same conditions as the product itself.

Recommended waste code: 08 03 13 (waste ink other than those mentioned in 08 03 12)

Uncleaned packaging: 15 01 02 (plastic packaging)

Recommendation: Uncontaminated packaging can be recycled. Non-cleanable packaging must be disposed of in the same way as the substance.

## 14. Transport information

### 14.1 UN Class/UN Number

ADR/ADG/DOT, IMDG, or IATA : Not regulated

**14.2 UN proper shipping name**

ADR/ADG/DOT, IMDG, or IATA : Not regulated

**14.3 Transport hazard class(es)**

ADR/ADG/DOT, IMDG, or IATA : Not regulated

**14.4 Packing group**

ADR/ADG/DOT, IMDG, or IATA : Not regulated

**14.5 Environmental hazards**

ADR/ADG/DOT, IMDG, or IATA : Not regulated

**14.6. Special precautions for user**

ADR/ADG/DOT, IMDG, or IATA : Transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code:**

Not regulated

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

(EC) No 1907/2006 Authorisation:	Not regulated
(EC) No 1907/2006 SVHC:	Not regulated
(EC) No 1005/2009:	Not regulated
(EC) No 850/2004:	Not regulated
(EU) No 649/2012:	Not regulated

**15.2. Chemical safety assessment**

This product has not carried out any Chemical Safety Assessment yet.

**16. Other Information**

List of relevant H-Statements:

List of relevant H-Statements:

- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H400: Very toxic to aquatic life.



The information in this Safety Data Sheet (SDS) is believed to be correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.