Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -**United Kingdom (UK)** 



# SAFETY DATA SHEET

Cyan Ink PN: 53332

Magenta Pg 12 Yellow Pg 24

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

1.1 Product identifier

**Product name** Cyan Ink PN: 53332 **Description of the product type:** Part number:

53332 Cyan Ink

**REACH Status** : EU (REACH): All components of the toner formulation are registered, pre-registered

or exempt under REACH. Pre-registered chemicals will be registered between 2011

and 2018.

**Product type** : Liquid.

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

**Product use** : Inkjet printer

: Consumer applications. Area of application

1.3 Details of the supplier of the safety data sheet

Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550

e-mail address of person

responsible for this SDS

: rcassidy@lexmark.com

Only representative : Environ Sterling House

> The Bourse, Boar Leeds, L5I 5EQ, United Kingdom

e-mail address of person

responsible for this SDS

**Emergency telephone** number (with hours of

operation)

: sbullock@uk.environcorp.com

: +44 (0) 113 245 7552

1.4 Emergency telephone number

**Supplier** 

Telephone number : Informations :1-859-232-2000

Emergency: 1-859-232-3333

ChemTel: US/Canada/Puerto Rico 1-800-255-3924 International 1-813-248-0585

(Collect calls accepted) Contract # MIS 0007054

**Hours of operation** : 24/7

Date of issue/Date of revision : 24 February 2023

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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown

toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3%

Ingredients of unknown ecotoxicity

: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 3%

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

**Hazard pictograms** : Not applicable. Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable.

**Hazardous ingredients** 

Supplemental label

elements

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

2.3 Other hazards

Substance/mixture

Other hazards which do not result in classification : None known.

: Not applicable.

### **SECTION 3: Composition/information on ingredients**

: Mixture

			Class		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
2-pyrrolidone	EC: 210-483-1 CAS: 616-45-5	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
DL-hexane-1,2-diol	EC: 230-029-6 CAS: 6920-22-5	≥3 - <5	Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

### **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

: None known.

### media

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

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

### 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Protective measures

Advice on general
occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Recommendations
Industrial sector specific solutions

Not available.Not available.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

### Occupational exposure limits

No exposure limit value known.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived effect levels**

No DELs available.

### **Predicted effect concentrations**

No PECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures** 

### **SECTION 8: Exposure controls/personal protection**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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### SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour : Cyan Odour Faint odour. **Odour threshold** : Not available. : 7 to 8.5 pН Melting point/freezing point : 0°C

Initial boiling point and

boiling range

: Not available.

Flash point [Product does not sustain combustion.]

: Not available. **Evaporation rate** : Not available. Flammability (solid, gas) Upper/lower flammability or Not available.

explosive limits

Vapour pressure : Not available. : Not available. Vapour density Relative density : Not available.

: Not available. Solubility(ies) Partition coefficient: n-octanol/ : Not available.

**Auto-ignition temperature** : Not available.

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Cyan Ink

### **SECTION 9: Physical and chemical properties**

**Decomposition temperature** 

Not available.

Viscosity

: Not available.

**Explosive properties** 

Not available.

Oxidising properties

: Not available.

#### 9.2 Other information

No additional information.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: No specific data.

10.5 Incompatible materials

: No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Cyan Ink	LD50 Oral	Rat	>2000 mg/kg	-
2-pyrrolidone	LD50 Oral	Rat	328 mg/kg	-

Conclusion/Summary

: Not available.

**Acute toxicity estimates** 

Not available.

**Irritation/Corrosion** 

**Conclusion/Summary**: Not available.

**Sensitiser** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
DL-hexane-1,2-diol	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal.

### Potential acute health effects

Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.
 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

### **SECTION 12: Ecological information**

12.1 Toxicity

**Conclusion/Summary**: Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

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### **SECTION 12: Ecological information**

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-pyrrolidone	-0.71	3.16	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

- The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- **Hazardous waste**
- : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### **Special precautions**

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-

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Cyan Ink

### SECTION 14: Transport information

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14.5 Environmental hazards	No.	No.	No.	No.		
Additional information	-	-	-	-		

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

#### Other EU regulations

**Europe inventory** 

: All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

**Black List Chemicals Priority List Chemicals** Integrated pollution prevention and control list (IPPC) - Air

Not listed : Not listed

: Not listed

**Integrated pollution** prevention and control list (IPPC) - Water

: Not listed

#### **International regulations lists**

AICS (Australia)

**ENCS (Japan)** 

: All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.

China inventory (IECSC) **DSL/NDSL** 

: All ingredients are listed on the Chinese inventory (IECSC) or are exempt.

: All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt. : All ingredients are listed on the Japanese Existing and New Chemical Substances

(ENCS) list, have been registered, or are exempt. : All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.

**Philippines inventory** (PICCS)

Korea inventory (KECI)

: All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.

### **SECTION 15: Regulatory information**

**United States inventory** 

(TSCA 8b)

All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory,

have been registered, or are exempt.

**Chemical Weapons** 

**Convention List Schedule I** 

Chemicals

**Chemical Weapons** 

**Convention List Schedule II** 

: Not listed

: Not listed

Chemicals

**Chemical Weapons Convention List Schedule III** 

**Chemicals** 

: Not listed

15.2 Chemical Safety **Assessment** 

: This product contains substances for which Chemical Safety Assessments are still

required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

**Key literature references** and sources for data

Not available.

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H

statements

: H302 Harmful if swallowed. Causes skin irritation. H315

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Full text of classifications** 

[CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4

Eve Irrit. 2. H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SKIN CORROSION/IRRITATION - Category 2 Skin Irrit. 2, H315 **STOT SE 3, H335** SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Full text of abbreviated R : R22- Harmful if swallowed.

phrases

R36/37/38- Irritating to eyes, respiratory system and skin.

**Full text of classifications** 

[DSD/DPD]

Xn - Harmful Xi - Irritant

Date of issue/ Date of

revision

24 February 2023

Date of previous issue

: 24 February 2023

: 1 Version

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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## SAFETY DATA SHEET

Magenta Ink PN: 53332

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

1.1 Product identifier

Product name : Magenta Ink PN: 53332

Description of the product type : Part number :

Magenta Ink 53332

REACH Status : Not available.

Product type : Liquid.

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

Product use : Inkjet printer

**Area of application** : Consumer applications.

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

Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550

e-mail address of person responsible for this SDS

: rcassidy@lexmark.com

Only representative

 Environ Sterling House The Bourse, Boar Leeds, L5I 5EQ, United Kingdom

e-mail address of person responsible for this SDS

: sbullock@uk.environcorp.com

**Emergency telephone** number (with hours of

operation)

: +44 (0) 113 245 7552

### 1.4 Emergency telephone number

**Supplier** 

Telephone number : Informations :1-859-232-3000

Emergency :1-859-232-3333

ChemTel: US/Canada/Puerto Rico 1-800-255-3924 International 1-813-248-0585

(Collect calls accepted) Contract # MIS 0007054

**Hours of operation** : 24/7

Date of issue/Date of revision : 24 February 2023

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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown

toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 4%

Ingredients of unknown ecotoxicity

: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 10%

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : Not applicable.Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients

Supplemental label

elements

: Not applicable.

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

2.3 Other hazards

Other hazards which do not result in classification

: None known.

### **SECTION 3: Composition/information on ingredients**

Substance/mixture : Mixture

			Class		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Type
2-pyrrolidone	EC: 210-483-1 CAS: 616-45-5	≥5 - <10	Xn; R22	Acute Tox. 4, H302 Aquatic Chronic 3, H412	[1]
DL-hexane-1,2-diol	EC: 230-029-6 CAS: 6920-22-5	≥3 - <5	Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

### **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

: None known.

### media

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

: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

### 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures

Advice on general
occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- 7.2 Conditions for safe storage, including any incompatibilities
- : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Recommendations
Industrial sector specific solutions

Not available.Not available.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

### Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived effect levels**

No DELs available.

### **Predicted effect concentrations**

No PECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures** 

### **SECTION 8: Exposure controls/personal protection**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.

Colour : Magenta

Odour : Faint odour.

Odour threshold : Not available.

pH : 7 to 8.5

Melting point/freezing point : 0°C

Initial boiling point and

boiling range

: Not available.

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Upper/lower flammability or : Not available.

explosive limits

Vapour pressure: Not available.Vapour density: Not available.Relative density: Not available.

Solubility(ies) : Not available.

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : Not available.

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### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

Magenta Ink

### **SECTION 9: Physical and chemical properties**

**Decomposition temperature** 

Not available.

Viscosity
Explosive properties

Not available.Not available.

Oxidising properties

: Not available.

#### 9.2 Other information

No additional information.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-pyrrolidone	LD50 Oral	Rat	328 mg/kg	-

**Conclusion/Summary** 

: Not available.

**Acute toxicity estimates** 

Route	ATE value
Oral	3904.8 mg/kg

### **Irritation/Corrosion**

Conclusion/Summary : Not available.

<u>Sensitiser</u>

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
DL-hexane-1,2-diol	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

### Potential acute health effects

Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.
 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects: Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards. Toner is negative (nonmutagenic)

in the Ames assay.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-pyrrolidone	Acute EC50 13210 μg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-pyrrolidone	-0.71	3.16	low

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

**Packaging** 

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

: Not applicable.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

**Europe inventory**: All ingredients are listed on the European Inventory of Existing Commercial

Substances (EINECS) list, have been registered on the European List of New

Chemical Substances (ELINCS), or are exempt.

Black List Chemicals : Not listed
Priority List Chemicals : Not listed
Integrated pollution : Not listed

list (IPPC) - Air

Integrated pollution prevention and control list (IPPC) - Water

prevention and control

: Not listed

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### **SECTION 15: Regulatory information**

**International regulations lists** 

AICS (Australia) : Not determined.

China inventory (IECSC) : Not determined.

DSL/NDSL : Not determined.

ENCS (Japan) : Not determined.

**Philippines inventory** 

(PICCS) Not determined.

Korea inventory (KECI) : Not determined.

**United States inventory** 

(TSCA 8b)

: All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory,

have been registered, or are exempt.

**Chemical Weapons Convention List Schedule I** 

**Chemicals** 

: Not listed

Chemical Weapons
Convention List Schedule II

Chemicals

: Not listed

Chemical Weapons
Convention List Schedule III

Chemicals

: Not listed

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still

required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Key literature references and sources for data

Regulation (EC) No. 1272/2008 [CLP] International transport regulations Occupational exposure limits

IATA Dangerous Goods Regulation (DGR) 55th Edition 2014

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H

statements

H302 Harmful if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

Acute Tox. 4, H302

ACUTE TOXICITY (oral) - Category 4

Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Full text of abbreviated R

phrases

: R22- Harmful if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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### **SECTION 16: Other information**

Full text of classifications

[DSD/DPD]

: Xn - Harmful Xi - Irritant

Date of issue/ Date of

revision

: 24 February 2023

Date of previous issue : No previous validation

Version : 1

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -



## SAFETY DATA SHEET

Yellow Ink PN: 53332

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

1.1 Product identifier

Yellow Ink PN: 53332 **Product name Description of the product type:** Part number:

53332 Yellow Ink

**REACH Status** : EU (REACH): All components of the toner formulation are registered, pre-registered

or exempt under REACH. Pre-registered chemicals will be registered between 2011

and 2018.

**Product type** : Liquid.

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

**Product use** : Inkjet printer

: Consumer applications. Area of application

1.3 Details of the supplier of the safety data sheet

Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550

e-mail address of person

responsible for this SDS

: rcassidy@lexmark.com

Only representative : Environ Sterling House

> The Bourse, Boar Leeds, L5I 5EQ, United Kingdom

e-mail address of person

responsible for this SDS

**Emergency telephone** number (with hours of

operation)

: sbullock@uk.environcorp.com

: +44 (0) 113 245 7552

1.4 Emergency telephone number

**Supplier** 

Telephone number : Informations :1-859-232-3000

Emergency: 1-859-232-3333

ChemTel: US/Canada/Puerto Rico 1-800-255-3924 International 1-813-248-0585

(Collect calls accepted) Contract # MIS 0007054

**Hours of operation** : 24/7

Date of issue/Date of revision : 24 February 2023

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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Ingredients of unknown

toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 8.8%

Ingredients of unknown

: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 8.8%

ecotoxicity

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** : Not applicable. Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable.

**Hazardous ingredients** 

Supplemental label

elements

: Contains 2,2',2"-nitrilotriethanol. May produce an allergic reaction.

#### 2.3 Other hazards

Other hazards which do not result in classification : None known.

: Not applicable.

### **SECTION 3: Composition/information on ingredients**

Substance/mixture : Mixture

			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Type
2-pyrrolidone	EC: 210-483-1 CAS: 616-45-5	≥5 - <10	Xn; R22	Acute Tox. 4, H302 Aquatic Chronic 3, H412	[1]
DL-hexane-1,2-diol	EC: 230-029-6 CAS: 6920-22-5	≥3 - <5	Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

### **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

: None known.

media

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

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

### 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

### **SECTION 6: Accidental release measures**

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Recommendations **Industrial sector specific** solutions

: Not available. : Not available.

### SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

### Occupational exposure limits

No exposure limit value known.

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived effect levels**

No DELs available.

### **Predicted effect concentrations**

No PECs available.

#### 8.2 Exposure controls

Date of issue/Date of revision : 24 February 2023

### **SECTION 8: Exposure controls/personal protection**

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.

Colour : Yellow.

Odour : Faint odour.

Odour threshold : Not available.

pH : 7 to 8.5

Melting point/freezing point : 0°C

Initial boiling point and

boiling range

: Not available.

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Upper/lower flammability or : Not available.

explosive limits

Vapour pressure: Not available.Vapour density: Not available.Relative density: Not available.

Solubility(ies) : Not available.

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### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

Yellow Ink

### **SECTION 9: Physical and chemical properties**

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.Explosive properties: Not available.Oxidising properties: Not available.

#### 9.2 Other information

No additional information.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-pyrrolidone	LD50 Oral	Rat	328 mg/kg	-

**Conclusion/Summary**: Not available.

**Acute toxicity estimates** 

Route	ATE value
Oral	5206.3 mg/kg

### Irritation/Corrosion

**Conclusion/Summary**: Not available.

**Sensitiser** 

Product/ingredient name	Route of exposure	Species	Result
Yellow Ink	skin	Rabbit	Not sensitizing

Conclusion/Summary

**Mutagenicity** 

Conclusion/Summary

: Not available.

: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

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### **SECTION 11: Toxicological information**

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
DL-hexane-1,2-diol	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.
 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards. Toner is negative (nonmutagenic)

in the Ames assay.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

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### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-pyrrolidone	Acute EC50 13210 μg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours

**Conclusion/Summary**: Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-pyrrolidone	-0.71	3.16	low

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

**Packaging** 

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

: Not applicable.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

**Europe inventory** : All ingredients are listed on the European Inventory of Existing Commercial

Substances (EINECS) list, have been registered on the European List of New

Chemical Substances (ELINCS), or are exempt.

Black List Chemicals : Not listed
Priority List Chemicals : Not listed
Integrated pollution : Not listed

prevention and control list (IPPC) - Air

Integrated pollution

: Not listed

Integrated pollution prevention and control list (IPPC) - Water

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### **SECTION 15: Regulatory information**

#### International regulations lists

**AICS (Australia)** 

: All ingredients are listed in Australian Inventory of Chemical Substances (AICS),

have been registered, or are exempt.

China inventory (IECSC)

**DSL/NDSL** 

**ENCS (Japan)** 

: All ingredients are listed on the Chinese inventory (IECSC) or are exempt.

been registered on the Non-Domestic Substances List (NDSL), or are exempt.

: All ingredients are listed on the Canadian Domestic Substances List (DSL), have

: All ingredients are listed on the Japanese Existing and New Chemical Substances

(ENCS) list, have been registered, or are exempt.

**Philippines inventory** 

(PICCS)

: All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.

Korea inventory (KECI) : All ingredients are listed on the Korean Existing Chemicals List (ECL), have been

registered, or are exempt.

**United States inventory** 

(TSCA 8b)

: All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory,

have been registered, or are exempt.

**Chemical Weapons Convention List Schedule I** 

**Chemicals** 

: Not listed

**Chemical Weapons Convention List Schedule II** 

Chemicals

: Not listed

**Chemical Weapons** 

**Convention List Schedule III** 

**Chemicals** 

: Listed

15.2 Chemical Safety **Assessment** 

: This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

**Key literature references** and sources for data

: Regulation (EC) No. 1272/2008 [CLP] International transport regulations Occupational exposure limits

IATA Dangerous Goods Regulation (DGR) 55th Edition 2014

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Not classified.		

Full text of abbreviated H

statements

Harmful if swallowed. : H302 H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Full text of classifications** 

[CLP/GHS]

: Acute Tox. 4, H302

ACUTE TOXICITY (oral) - Category 4 LONG-TERM AQUATIC HAZARD - Category 3

Aquatic Chronic 3, H412 Eve Irrit. 2, H319

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Irrit. 2, H315 **STOT SE 3, H335** 

SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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### **SECTION 16: Other information**

Full text of abbreviated R

phrases

: R22- Harmful if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

Full text of classifications [DSD/DPD]

: Xn - Harmful Xi - Irritant

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Date of previous issue

: No previous validation

Version

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### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.