Safety Data Sheet

Aqueous Cyan Ink

Product Name
Aqueous Ink

Part no.
008R13198, 071E02030
IMPIKA A0007312

Color
Cyan

Pure substance/mixture
Mixture

Recommended Use
Ink jet printing

Supplier
Xerox Corporation
Webster, NY  14580

Contact person
Manager, Environment, Health, Safety & Sustainability

E-mail address
askxerox@xerox.com

Emergency telephone
Safety Information US: (800) 275-9376
Chemical Emergency only (Chemtrec) (800) 424-9300

For the most current document
https://safetysheets.business.xerox.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Not classified

Serious eye damage/eye irritation
Category 2

Reproductive toxicity
Category 1B

Label elements
None required
Signal Word  Danger

Hazard Statements  H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child if swallowed

Precautionary Statements  None required

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P308 + P313 - IF exposed or concerned: Get medical advice/attention

Other hazards  Not a PBT according to REACH Annex XIII
This product does not contain any known or suspected endocrine disruptors

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Classification (Reg. 1272/2008)</th>
<th>Hazard Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>45-60</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>30-45</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>616-45-5</td>
<td>3-5</td>
<td>Eye Irrit 2</td>
<td>H319 H360</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repro Tox 1B</td>
<td></td>
</tr>
<tr>
<td>Cyan pigment</td>
<td>Proprietary</td>
<td>1-10</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>143-22-6</td>
<td>&lt;1</td>
<td>Eye Dam. 1</td>
<td>H318</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>2634-33-5</td>
<td>&lt;0.05</td>
<td>Acute Tox. 4</td>
<td>H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1</td>
<td>H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1</td>
<td>H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1</td>
<td>H400</td>
</tr>
</tbody>
</table>

"--" indicates no classification or hazard statements apply.

Full text of H- statements: see section 16

4. FIRST AID MEASURES

Description of first-aid measures

General advice  IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact  Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist

Skin contact  Wash off with warm water and soap, Get medical attention if irritation develops and persists

Inhalation  Move to fresh air, Get medical attention immediately if symptoms occur

Ingestion  Do not ingest, If swallowed, do not induce vomiting - seek medical advice

Most important symptoms and effects, both acute and delayed

Acute toxicity

Eyes  Avoid contact with eyes, May cause slight irritation

Skin  Avoid contact with skin

Prolonged skin contact may defat the skin and produce dermatitis

Inhalation  No known effect

Ingestion  Do not Ingest, May be harmful if swallowed
Main symptoms
Overexposure may cause:
- Eye irritation
- Skin irritation
- May damage fertility or the unborn child

Indication of immediate medical attention and special treatment needed
<table>
<thead>
<tr>
<th>Protection of first-aiders</th>
<th>No special protective equipment required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes to physician</td>
<td>Treat symptomatically</td>
</tr>
</tbody>
</table>

5. FIRE-FIGHTING MEASURES

Extinguishing media
- Suitable extinguishing media
  Water spray, Foam, Carbon dioxide (CO₂), Use extinguishing agent suitable for type of surrounding fire
- Unsuitable extinguishing media
  Do not use a solid water stream as it may scatter and spread fire

Special hazards arising from the substance or mixture
No information available

Hazardous combustion products
- Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters
- Wear self-contained breathing apparatus and protective suit

Other information
- Flammability: Not flammable
- Flash point: Not flammable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
- Avoid contact with the skin and the eyes, Use personal protective equipment

Environmental precautions
- Should not be released into the environment, Avoid runoff to waterways and sewers

Methods and material for containment and cleaning up
- Methods for containment: Prevent further leakage or spillage if safe to do so, Dike to collect large liquid spills
- Methods for cleaning up: Soak up with inert absorbent material

Reference to other sections
- For personal protection see section 8
- See Section 13 for additional information

7. HANDLING AND STORAGE

Precautions for safe handling
- Advice on safe handling
  Handle in accordance with good industrial hygiene and safety practice, Avoid contact with skin and eyes, Ensure adequate ventilation, Handle and open container with care

Conditions for safe storage, including any incompatibilities
- Technical measures and storage conditions
  Keep container tightly closed in a dry and well-ventilated place, Keep out of the reach of children, Handle with care
Incompatible products
Alkali metals, Strong oxidizing agents, Peroxides

Specific end uses
Ink jet printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>TWA: 15 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Cyan pigment</td>
<td>TWA: 1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Exposure controls

Engineering measures
Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment (PPE)

Eye/Face protection
If splashes are likely to occur, wear: Goggles

Hand protection
Protective gloves

Skin and body protection
None under normal use conditions

Respiratory protection
Use only with adequate ventilation.

Environmental Exposure Controls

Environmental Exposure Controls
Do not allow material to contaminate ground water system

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor</th>
<th>Odor threshold</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opaque</td>
<td>Slight</td>
<td>No information available</td>
<td>8 - 10</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Cyan</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flash point
Not flammable

Melting / Freezing Point
Not determined

Boiling point/range
>100 °C / >212 °F

Softening point
Not applicable

Evaporation rate
No information available

Flammability
Not flammable

Flammability Limits in Air
No information available

Vapor pressure
No information available

Vapor density
No information available

Specific gravity
No information available

Water solubility
Soluble in water

Partition coefficient
No information available

Autoignition temperature
No information available

Decomposition temperature
Not determined

Viscosity
No information available

Explosive properties
Not applicable

Oxidizing properties
Not applicable
Particle characteristics Not applicable

Other information None

10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions None under normal processing
Hazardous polymerization Hazardous polymerization does not occur

Conditions to avoid
Strong oxidizing agents, Extremes of temperature and direct sunlight

Incompatible Materials
Alkali metals, Strong oxidizing agents, Peroxides

Hazardous decomposition products
Undefined, but may include toxic oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity
Product Information
No acute toxicity information is available for this product

Irritation
May cause skin and eye irritation

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>12600 mg/kg ( Rat )</td>
<td>10 g/kg ( Rabbit )</td>
<td>570 mg/m³ ( Rat ) 1 h</td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>6500 mg/kg ( Rat )</td>
<td>2000 mg/kg ( Rabbit )</td>
<td>80 ppm ( Rat ) 8 h</td>
</tr>
<tr>
<td>Cyan pigment</td>
<td>10000 mg/kg ( Rat )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>5300 mg/kg ( Rat )</td>
<td>2000 mg/kg ( Rabbit )</td>
<td></td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>1020 mg/kg ( Rat )</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity
Sensitization Not expected to be a sensitizer
Neurological Effects No information available
Target organ effects None known

CMR Effects
Mutagenic effects Not mutagenic
Reproductive toxicity May damage fertility or the unborn child if swallowed
Carcinogenicity Contains no ingredient listed as a carcinogen

Other toxic effects

Aspiration Hazard No information available

11.2 Information on other hazards
Endocrine disrupting properties  No information available

12. ECOLOGICAL INFORMATION

Toxicity
Acute Aquatic Toxicity  On available data, substance is not harmful to aquatic life
Chronic Aquatic Toxicity  On available data, substance is not harmful to aquatic life

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>LC50 51 - 57 mL/L Oncorhynchus mykiss 96 h</td>
<td></td>
<td>EC50 &gt; 500 mg/L 24 h</td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>250 mg/L EC50 72 h (Desmodesmus subspicatus)</td>
<td>LC50 4600 - 10000 mg/L Brachydanio rerio 96 h</td>
<td>LC50 = 3.4 mg/L 96 h</td>
<td></td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>500 mg/L EC50 72 h (Desmodesmus subspicatus)</td>
<td>LC50 = 2400 mg/L Pimephales promelas 96 h</td>
<td>LC50 2200 - 4600 mg/L Leuciscus idus 96 h</td>
<td>EC50 &gt; 500 mg/L 48 h</td>
</tr>
</tbody>
</table>

Persistence and degradability  No product level data available

Bioaccumulative potential  Bioaccumulation is unlikely

Mobility in soil  Soluble

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>-0.71</td>
</tr>
<tr>
<td>Cyan pigment</td>
<td>6.6</td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>0.51</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>1.3</td>
</tr>
</tbody>
</table>

Results of PBT and vPvB assessment  This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

Endocrine disrupting properties  No information available

Other adverse effects  No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste Disposal Methods  Do not dispose of waste into sewer Dispose of in accordance with all applicable local and national environmental laws and regulations

Contaminated packaging  Empty containers should be taken to an approved waste handling site for recycling or disposal
California Waste Status
This product does not contain any substances listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION
This material is not subject to regulation as a hazardous material for shipping.

15. REGULATORY INFORMATION

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

OSHA Regulatory Status
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Canada
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

International Inventories
TSCA Complies
DSL/NDSL Complies

U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyan pigment</td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>143-22-6</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyan pigment</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any HAPs.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>HAPS data</th>
<th>VOC Chemicals</th>
<th>Class 1 Ozone Depleters</th>
<th>Class 2 Ozone Depleters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>30-45</td>
<td>HAPS data</td>
<td>Group II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>143-22-6</td>
<td>&lt;1</td>
<td>Present</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2-Pyrrolidone | X | X | X | X
Cyan pigment | X | X | X | X
Triethylene glycol, monobutyl ether | X | X | X | X

16. OTHER INFORMATION

Issuing Date 2015-01-14
Revision Date 2020-04-07
Revision Note Drawing number changed

Full text of H-Statements referred to under sections 2 and 3
H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child if swallowed
H400 - Very toxic to aquatic life

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

end