1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name
Aqueous Ink

Part no.
008R13197, 071E02060
IMPIKA A0007311

Color
Black

Pure substance/mixture
Mixture

Recommended Use
Ink jet printing

Details of the supplier of the safety data sheet

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

Symbol(s)
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

<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>50-60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>20-40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>5-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>616-45-5</td>
<td>5-10</td>
<td>Eye Irrit 2 Repro Tox 1B</td>
<td>H319 H360</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>2634-33-5</td>
<td>&lt;0.05</td>
<td>Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1</td>
<td>H302 H315 H318 H317 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
IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

General advice
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

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

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

Inhalation
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

Inhalation
Prolonged skin contact may defat the skin and produce dermatitis

Ingestion
No known effect

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
Protection of first-aiders
No special protective equipment required
Notes to physician
Treat symptomatically

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

<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>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Carbon black</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3.5 mg/m³</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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>8 - 10</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>&gt;100 °C / &gt;212 °F</td>
</tr>
<tr>
<td>Softening point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
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</td>
<td>10 g/kg</td>
<td>570 mg/m³ 1 h</td>
</tr>
<tr>
<td>Carbon black</td>
<td>15400 mg/kg</td>
<td>3 g/kg</td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>6500 mg/kg</td>
<td>2000 mg/kg</td>
<td>80 ppm 8 h</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>1020 mg/kg</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
See "Other Information" in this section.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>2B</td>
</tr>
</tbody>
</table>

Other information
The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". The classification is based on studies evaluating pure, "free" carbon black. In the process of making this product, the small amount of carbon black is dispersed in a liquid and is not expressed as “free” carbon black. Therefore, this classification does not
apply to this product.

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</td>
<td>Oncorhynchus mykiss 96 h</td>
<td>EC50 &gt; 500 mg/L 24 h</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td></td>
<td></td>
<td>EC50 &gt; 5600 mg/L 24 h</td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>250 mg/L EC50 72 h</td>
<td>(Desmodesmus subspicatus) 84 mg/L EC50 96 h (Desmodesmus subspicatus)</td>
<td>LC50 4600 - 10000 mg/L Brachydanio rerio 96 h</td>
<td>LC50 = 3.4 mg/L 96 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>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

**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)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**
This product contains the following substances which are listed as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

<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 Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>20-40</td>
<td></td>
<td></td>
<td>Group II</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 contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

**U.S. State Right-to-Know Regulations**
This product is subject to U.S. State Right-to-know regulations as noted below.

<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></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Glycerol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Carbon black</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

BR547
## 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Issuing Date</th>
<th>2015-01-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>2020-04-07</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Drawing number changed</td>
</tr>
</tbody>
</table>

**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