Safety Data Sheet

SDS # : F-60038  Aqueous Ink - Black
Issuing Date 2018-10-02  Revision Date 2019-05-08  Version 1

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

Product Identifier

Product Name
HF Aqueous Ink  for  Xerox® Baltoro™ HF InkJet Press

Part no.  008R13256
Color  Black
Pure substance/mixture  Mixture

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use  Ink jet printing

Details of the supplier of the safety data sheet
Supplier  Xerox Corporation
Webster, NY  14580

For further information, please contact
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

Serious eye damage/eye irritation  Category 2

Label elements

Symbol(s)

Signal Word  Warning

Hazard Statements  H319 - Causes serious eye irritation

Precautionary Statements  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

Other hazards
Contains a chemical that can cause an allergic reaction in susceptible people

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>50-60</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>15-35</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>1,2-Hexanediol</td>
<td>6920-22-5</td>
<td>&lt;15</td>
<td>Eye Irrit. 2</td>
<td>H319</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>&lt;8</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>&lt;1</td>
<td>--</td>
<td>--</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></td>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1</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
If swallowed, do not induce vomiting - seek medical advice

Most important symptoms and effects, both acute and delayed

Acute toxicity

| Eyes       | Irritating to eyes          |
| Skin      | No known effect             |
| Inhalation | No known effect             |
| Ingestion | No known effect             |

Chronic toxicity
Repeated contact may cause allergic reactions in very susceptible persons

Main symptoms

Overexposure may cause:

| Eye irritation     |
| Skin irritation    |

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)

**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

**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

- **Flash point**
  - > 100 °C / > 212 °F

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. Do not allow material to contaminate ground water system

**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. Prevent entry into waterways, sewers, basements or confined areas

- **Methods for cleaning up**
  - Soak up with inert absorbent material. Prevent product from entering drains

Reference to other sections

- See section 12 for additional ecological information
- 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**
  - 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>Carbon black</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>TWA: 5 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th>Odor</th>
<th>Odor threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque</td>
<td>Slight</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td>7-9.5</td>
</tr>
</tbody>
</table>
| Flash point                                    | > 100 °C | > 212 °F
| Boiling point/range                            | Not determined |
| Softening point                                | Not applicable |
| Evaporation rate                               | No information available |
| Flammability Limits in Air                     | No information available |
| Vapor pressure                                 | No information available |
| Vapor density                                  | No information available |
| Specific gravity                               | No information available |
| Water solubility                               | Dispersable |
| Partition coefficient                          | No information available |
| Autoignition temperature                       | No information available |
| Decomposition temperature                      | Not determined |
| Viscosity                                      | 5-7 mPa.s @ 25 °C |
| Explosive properties                           | Not explosive |
| Oxidizing properties                           | 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
11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product Information

Irritation

Irritating to eyes

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>Propylene glycol</td>
<td>20 g/kg (Rat)</td>
<td>20800 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>15400 mg/kg (Rat)</td>
<td>3 g/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>4190 mg/kg (Rat)</td>
<td>20 mL/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

Contains a chemical that can cause an allergic reaction in susceptible people

Neurological Effects

No information available

Target organ effects

No information available

CMR Effects

Mutagenic effects

No information available

Reproductive toxicity

No information available

Carcinogenicity

See "Other Information" in this section.

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

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>Propylene glycol</td>
<td>19000 mg/L EC50 96 h (Pseudokirchneriella subcapitata)</td>
<td>LC50= 51600 mg/L Oncorhynchus mykiss 96 h LCF50= 51400 mg/L Pimephales promelas 96 h LC50= 41 - 47 mL/L Oncorhynchus mykiss 96 h LC50= 710 mg/L Pimephales promelas 96 h</td>
<td>EC50 &gt; 10000 mg/L 48 h EC50 &gt; 10000 mg/L 24 h</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td></td>
<td></td>
<td></td>
<td>EC50 &gt; 5600 mg/L 24 h</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>216 mg/L EC50 72 h</td>
<td>LC50 10600 - 13000 mg/L</td>
<td></td>
<td>EC50 = 1386 mg/L 24 h</td>
</tr>
</tbody>
</table>
Persistence and degradability  
No product level data available

Bioaccumulative potential  
No product level data available

Mobility in soil  
Soluble in water

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethanolamine</td>
<td>-2.53</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>1.3</td>
</tr>
</tbody>
</table>

Other adverse effects  
No information available

13. DISPOSAL CONSIDERATIONS

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  
No special precautions are needed in handling this material

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 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 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>Propylene glycol</td>
<td>57-55-6</td>
<td>15-35</td>
<td></td>
<td></td>
<td>Group I</td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>&lt;1</td>
<td></td>
<td></td>
<td>Group I</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
Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". This product does not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

<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>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Issuing Date          2018-10-02
Revision Date         2019-05-08
Revision Note         Initial Release
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
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.