Safety Data Sheet

SDS # : F-60004

Aqueous Black Ink

Issuing Date 2014-12-08
Revision Date 2018-01-17
Version 2

Active

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

Product Identifier

Product Name
Aqueous Ink

for
Xerox Rialto 900, Xerox Brenva HD Production Inkjet Press (Print Module)

Part no.
008R13197
IMPIKA A0007311

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
Rochester, NY 14644

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
(703) 527-3887 (collect outside the US or Canada)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified

Label elements

Symbol(s)
None required
Signal Word
None required

Hazard Statements
None required

Precautionary Statements
None required

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>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>1-10</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>Skin Irr. 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>

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: May cause slight irritation
- Skin: May cause irritation
- Inhalation: No known effect
- Ingestion: No known effect

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
None in particular

Hazardous combustion products
Heating or fire conditions liberates toxic gas, Thermal decomposition can lead to release of irritating gases and vapors

Special protective actions for fire-fighters
Wear self-contained breathing apparatus and protective suit.

**Other information**

<table>
<thead>
<tr>
<th>Flammable properties</th>
<th>Not flammable. Will not readily ignite.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>&gt; 93.34 °C / &gt; 200.01 °F</td>
</tr>
</tbody>
</table>

**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**
Do not dispose of waste into sewer

**7. HANDLING AND STORAGE**

**Precautions for 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.

**Hygiene measures**
None under normal use conditions

**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**
None known based on information supplied

**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>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)

- **Respiratory protection**: Use only with adequate ventilation.
- **Eye/Face protection**: If splashes are likely to occur, wear: Goggles
- **Skin and body protection**: None under normal use conditions
- **Hand protection**: Protective gloves

### 9. 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>Odor threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93.34 °C / &gt; 200.01 °F</td>
</tr>
<tr>
<td>Softening point</td>
<td>Not applicable</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>Density</td>
<td>1.1 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</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**: None known based on information supplied
- **Incompatible materials to avoid**: None known based on information supplied
- **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

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>Carbon black</td>
<td>15400 mg/kg (Rat)</td>
<td>3 g/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>6500 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: Contains a chemical that can cause an allergic reaction in susceptible people
- Neurological Effects: No hazard expected under normal conditions of use
- 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>2B</td>
<td></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: No product level data available

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

Persistence and degradability

No product level data available

Bioaccumulative potential

No product level data available
Bioaccumulation is unlikely

**Mobility in soil**
- Soluble in water

<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>

**Other adverse effects**
- No information available

### 13. DISPOSAL CONSIDERATIONS

**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**
  - 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 Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**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</th>
<th>Class 2 Ozone</th>
</tr>
</thead>
<tbody>
<tr>
<td>604E72610</td>
<td>BR547</td>
<td></td>
<td></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 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>Glycerol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></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>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Issuing Date: 2014-12-08
Revision Date: 2018-01-17
Revision Note: Update to Format

Full text of H-Statements referred to under sections 2 and 3

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

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.