SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 as amended

SDS # : F-60004

Aqueous Ink - Black

Issuing Date 2015-01-14
Revision Date 2020-11-18
Version 12

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

1.1 Product Identifier

Product Name Aqueous Ink for Xerox Rialto 900, Xerox Brenva HD Production Inkjet Press (Print Module)
Part no. 008R13197, 071E02060
IMPIKA A0007311
Colour Black

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

Recommended Use Ink jet printing

1.3 Details of the supplier of the safety data sheet

Supplier Xerox Ltd.
Building 4
Uxbridge Business Park
Sanderson Road
Uxbridge
Middlesex. UB8 1DH
UK

For further information, please contact
Contact person Manager, Environment, Health, Safety & Sustainability
Phone ++44 (0)1707 353434
E-mail address ehs-europe@xerox.com

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

1.4 Emergency telephone number

+44 1865 407333

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is classified and labelled in accordance with Regulation (EC) No. 1272/2008

<table>
<thead>
<tr>
<th>Serious eye damage/eye irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Category 1B</td>
</tr>
</tbody>
</table>

2.2 Label elements

Symbol(s)
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

2.3 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

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>CAS No.</th>
<th>EC-No</th>
<th>Classification (Reg. 1272/2008)</th>
<th>Hazard Statements</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>50-60</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>20-40</td>
<td>56-81-5</td>
<td>200-289-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>5-10</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td></td>
<td></td>
<td>01-2119384822-32-0065</td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>5-10</td>
<td>616-45-5</td>
<td>210-483-1</td>
<td>Eye Irrit 2 Repro Tox 1B</td>
<td></td>
<td>H319 H360</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>&lt;0.05</td>
<td>2634-33-5</td>
<td>220-120-9</td>
<td>Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1</td>
<td></td>
<td>H302 H315 H318 H317 H400</td>
</tr>
</tbody>
</table>

Full text of H- statements: see section 16

Note: "--" indicates no classification or hazard statements apply.
Where no REACH registration number is listed, it is considered confidential to the Only Representative.

4. FIRST AID MEASURES

4.1 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.

4.2 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.

Chronic effects
- Chronic toxicity: No known effects under normal use conditions.

Main symptoms: Overexposure may cause:
- Eye irritation
- Skin irritation
- May damage fertility or the unborn child

4.3 Indication of immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 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.

5.2 Special hazards arising from the substance or mixture

No information available.

Hazardous combustion products: Thermal decomposition can lead to release of irritating gases and vapours.

5.3 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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Methods for containment
- Prevent further leakage or spillage if safe to do so, Dyke to collect large liquid spills

Methods for cleaning up
- Soak up with inert absorbent material

6.4 Reference to other sections

For personal protection see section 8
See Section 13 for additional information

7. HANDLING AND STORAGE

7.1 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

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place, Keep out of the reach of children, Handle with care

7.3 Specific end uses

Ink jet printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>European Union</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>TWA: 3 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

For country specific exposure limits see Section 16

8.2 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: Do not allow material to contaminate ground water system.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 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>pH</td>
<td>8 - 10</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight</td>
</tr>
<tr>
<td>Colour</td>
<td>Black</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/boiling 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>Explosive Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapour 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>Oxidising properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

None

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use

#### 10.2 Chemical stability

Stable under normal conditions

#### 10.3 Possibility of hazardous reactions
Hazardous reactions
None under normal processing

Hazardous polymerisation
Hazardous polymerisation does not occur

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

10.5 Incompatible Materials
Alkali metals, Strong oxidising agents, Peroxides

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

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product Information
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>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>80 ppm (Rat) 8 h</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

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

Sensitisation
Not expected to be a sensitizer

Mutagenic effects
Not mutagenic

Reproductive toxicity
May damage fertility or the unborn child if swallowed

Target organ effects
None known

Aspiration Hazard
No information available

11.2 Information on other hazards
Endocrine disrupting properties  No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

On available data, the mixture / preparation is not harmful to aquatic life

12.2 Persistence and degradability

No product level data available

12.3 Bioaccumulative potential

Bioaccumulation is unlikely

12.4 Mobility in soil

Soluble

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal considerations

Avoid runoff to waterways and sewers
This material and its container must be disposed of as hazardous waste

EWC Waste Disposal No. 08 03 12*

14. TRANSPORT INFORMATION

14.1 UN/ID No

Not regulated

14.2 Proper shipping name

Not regulated
14.3 Transport hazard class(es)
   Not classified

14.4 Packing Group
   Not applicable

14.5 Environmental hazards
   Presents little or no hazard to the environment

14.6 Special precautions for users
   No special precautions are needed in handling this material

14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code
   Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
   The product is classified and labelled in accordance with Regulation (EC) No. 1272/2008

15.2 Chemical Safety Assessment
   Not applicable

16. OTHER INFORMATION

Issuing Date  2015-01-14
Revision Date  2020-11-18
Revision Note  (M)SDS sections updated, 13

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

Additional advice
EU Country Specific Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>The United Kingdom</th>
<th>Ireland</th>
<th>France</th>
<th>Germany</th>
<th>The Netherlands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>STEL 30 mg/m³</td>
<td></td>
<td>TWA 10 mg/m³</td>
<td>AGW 200 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
**Aqueous Ink - Black**

**Chemical Name** | The United Kingdom | Ireland | France | Germany | The Netherlands
--- | --- | --- | --- | --- | ---
Carbon black | TWA 10 mg/m³ | STEL 7 mg/m³ | TWA 3 mg/m³ | TWA 3.5 mg/m³ | TWA 3.5 mg/m³

| Chemical Name | Belgium | Switzerland | Austria | Hungary | Czech Republic
--- | --- | --- | --- | --- | ---
Glycerol | TWA 10 mg/m³ | SS-C** | TWA 50 mg/m³ | Ceiling 15 mg/m³ |
Carbon black | TWA 3 mg/m³ | TWA 50 mg/m³ | STEL 100 mg/m³ |

| Chemical Name | Spain | Portugal | Italy | Greece | Romania
--- | --- | --- | --- | --- | ---
Glycerol | TWA 10 mg/m³ | TWA 10 mg/m³ | TWA 10 mg/m³ |
Carbon black | TWA 3.5 mg/m³ | TWA 3.5 mg/m³ | TWA 3.5 mg/m³ |

| Chemical Name | Poland | Denmark | Sweden | Finland | Norway
--- | --- | --- | --- | --- | ---
Glycerol | TWA 10 mg/m³ | TWA 20 mg/m³ | TWA 3.5 mg/m³ | TWA 3.5 mg/m³ | TWA 3.5 mg/m³ |
Carbon black | TWA 3.5 mg/m³ | TWA 3.5 mg/m³ | TLV 3 mg/m³ | STEL 7 mg/m³ | STEL 7 mg/m³ |

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 as amended.

**Disclaimer**
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