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

Product Identifier

Product Name
Aqueous Ink

for
Impika Compact/Evolution/Reference

Part no.
106R02664
IMPIKA A0004982
Kits: 497N03465, 497N05548

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Not classified

Label elements

Signal Word
None

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
### 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**
Rinse thoroughly with plenty of water, also under the eyelids, If eye irritation persists, consult a specialist

**Skin contact**
Wash off with warm water and soap

**Inhalation**
Move to fresh air, If symptoms persist, call a physician

**Ingestion**
Clean mouth with water and afterwards drink plenty of water, Consult a physician if necessary

**Most important symptoms and effects, both acute and delayed**

**Acute toxicity**

- **Eyes**
  Contact with eyes may cause irritation
- **Skin**
  May cause irritation
- **Inhalation**
  May cause irritation of respiratory tract
- **Ingestion**
  Do not ingest

**Chronic toxicity**
No known effect based on information supplied

**Main symptoms**
May cause eye and 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**
No information available

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

Flammable properties
Not flammable. Will not readily ignite.
Flash point
> 93 °C / > 199 °F

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid contact with eyes

Environmental precautions
Do not allow material to contaminate ground water system

Methods and material for containment and cleaning up
Methods for containment
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal
Methods for cleaning up
Soak up with inert absorbent material

Reference to other sections
No information available

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice
Ensure adequate ventilation
Prevent the formation of vapors, mists and aerosols.

Conditions for safe storage, including any incompatibilities
Technical measures and storage
Keep containers tightly closed in a dry, cool and well-ventilated place
Keep out of the reach of children

Incompatible products
No information available

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
None under normal use conditions
Skin and body protection
None under normal use conditions
Hand protection
None under normal use conditions
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93 °C / &gt; 199 °F</td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1.1 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting point/range</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></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
- No information available

Hazardous decomposition products
- None under normal use

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity
- Product Information: No acute toxicity information is available for this product
- Oral LD50: Not determined
### 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>Triethylene glycol, monobutyl ether</td>
<td>5300 mg/kg (Rat)</td>
<td>2000 mg/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

- **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
- **Teratogenicity**: No information available
- **Carcinogenicity**: See "Other Information" in this section.

### 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></td>
<td>LC50 51 - 57 mL/L 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></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 LC50 2200 - 4600 mg/L Leuciscus idus 96 h</td>
<td>EC50 &gt; 500 mg/L 48 h</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 Brachydanio 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
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>Triethylene glycol, monobutyl ether</td>
<td>0.51</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

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 contains a chemical or 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>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)

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>Glycerol</td>
<td>56-81-5</td>
<td>20-30</td>
<td></td>
<td></td>
<td>Group II</td>
<td></td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>143-22-6</td>
<td>2.5-3</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 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>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>X</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></td>
<td></td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

Issuing Date                2015-02-20
Revision Date               2018-01-25
Revision Note              (M)SDS sections updated; 16, Part number 497N03465, 497N05548 added, Address for some geographies updated

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
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.