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

Product Identifier

Product Name
Aqueous Ink

for Impika Compact/Evolution/Reference, Trivor 2400

Part no.
106R02272
IMPIKA A0001762

Color
Magenta

Pure substance/mixture
Mixture

Recommended Use
Ink jet printing

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Not classified

Label elements

Symbol(s)
None required

Signal Word
None

Hazard Statements
None required

Precautionary Statements
None required

Other hazards
No hazard expected under normal conditions of use

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>50-75</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>20-40</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>5-25</td>
<td>Acute Tox. 4</td>
<td>H302</td>
</tr>
<tr>
<td>Butyl carbitol</td>
<td>112-34-5</td>
<td>&lt;5</td>
<td>Eye Irrit. 2</td>
<td>H319</td>
</tr>
<tr>
<td>Red dye</td>
<td>Proprietary</td>
<td>2-4</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>&lt;0.1</td>
<td>--</td>
<td>--</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
Clean mouth with water and afterwards drink plenty of water. If swallowed, call a poison control center or doctor immediately.

Most important symptoms and effects, both acute and delayed

Acute toxicity

Eyes
Avoid contact with eyes. Contact with eyes may cause irritation.

Skin
Avoid contact with skin. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation
Avoid breathing vapors or mists. May be harmful if inhaled.

Ingestion
Do not ingest. May be harmful if swallowed.

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

No information available.

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

Flammable properties
Not flammable. Will not readily ignite.
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, 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

Reference to other sections
Do not dispose of waste into sewer

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>Glycerin</td>
<td></td>
<td>TWA: 15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Butyl carbitol</td>
<td>TWA: 10 ppm</td>
<td></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)
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

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor threshold</th>
<th>Odor</th>
<th>Physical state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opaque</td>
<td>No information available</td>
<td>Slight</td>
<td>Liquid</td>
</tr>
</tbody>
</table>
Aqueous Magenta Ink

pH: 8 - 10
Flash point: Not flammable
Softening point: Not applicable

Color: Magenta
Boiling point/range: >100 °C / >212 °F
Autoignition temperature: No information available

Vapor pressure: No information available
Water solubility: Soluble in water
Viscosity: No information available
Partition coefficient: No information available
Evaporation rate: Not applicable
Partition coefficient: Not applicable
Freezing point: No information available
Decomposition temperature: Not determined
Specific gravity: No information available

Explosive properties: Not explosive

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 to avoid
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
Oral LD50: No information available
Dermal LD50: No information available

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 (Rat)</th>
<th>Dermal LD50 (Rabbit)</th>
<th>LC50 Inhalation (Rat) 1 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>12600 mg/kg</td>
<td>10 g/kg</td>
<td>570 mg/m³</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>12565 mg/kg</td>
<td>11890 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Butyl carbitol</td>
<td>5660 mg/kg</td>
<td>2700 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>
Chronic toxicity

- Sensitization: Not expected to be a sensitizer
- Neurological Effects: No information available
- Target organ effects: No information available

CMR Effects
- Mutagenic effects: Not mutagenic
- Reproductive toxicity: No information available
- Teratogenicity: No information available
- Carcinogenicity: Contains no ingredient listed as a carcinogen

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.

<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>Glycerin</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>Diethylene glycol</td>
<td>LC50= 75200 mg/L Pimephales promelas 96 h</td>
<td></td>
<td>EC50 = 84000 mg/L 48 h</td>
<td></td>
</tr>
<tr>
<td>Butyl carbitol</td>
<td>100 mg/L EC50 96 h (Desmodesmus subspicatus)</td>
<td>LC50= 1300 mg/L Lepomis macrochirus 96 h</td>
<td>EC50 &gt; 100 mg/L 48 h EC50 = 2850 mg/L 24 h</td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>169 mg/L EC50 96 h (Desmodesmus subspicatus) 216 mg/L EC50 72 h (Desmodesmus subspicatus)</td>
<td>LC50 10600 - 13000 mg/L Pimephales promelas 96 h LC50&gt; 1000 mg/L Pimephales promelas 96 h LC50 450 - 1000 mg/L Lepomis macrochirus 96 h</td>
<td>EC50 = 1386 mg/L 24 h</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No product level data available

Bioaccumulative potential
Bioaccumulation is unlikely

Mobility in soil
Soluble

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>-1.76</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>-1.98</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>-2.53</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Disposal considerations
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>Butyl carbitol</td>
<td>112-34-5</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 Depleters</th>
<th>Class 2 Ozone Depleters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>20-40</td>
<td>HAPS data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>5-25</td>
<td></td>
<td></td>
<td>Group I</td>
<td></td>
</tr>
<tr>
<td>Butyl carbitol</td>
<td>112-34-5</td>
<td>&lt;5</td>
<td>Present</td>
<td></td>
<td>Group I</td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>&lt;0.1</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
This product does not contain any Proposition 65 chemicals

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>
</table>

BR547
### SDS # : F-60011  
**Aqueous Magenta Ink**

<table>
<thead>
<tr>
<th></th>
<th>Water</th>
<th>Glycerin</th>
<th>Diethylene glycol</th>
<th>Butyl carbitol</th>
<th>Triethanolamine</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

- **Issuing Date**: 2015-01-14
- **Revision Date**: 2017-03-21
- **Revision Note**: Update to Format

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

H302 - Harmful if swallowed  
H319 - Causes serious eye 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.

end