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

Product Identifier

Product Name
Ink, UV Curable for Xerox Direct-to-Object InkJet Printer

Part no.
008R08074

Color
White

Pure substance/mixture
Mixture

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

Recommended Use
Ink jet printing

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Single Exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Repeated Exposure)</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute Aquatic Toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Chronic Aquatic Toxicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Label elements

Signal Word
Danger
Hazard Statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash hands thoroughly after handling
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P273 - Avoid release to the environment
P501 - Dispose of contents/container to an appropriate disposal facility in accordance with all local, regional, national, and international regulations

Other hazards

None

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>Acrylate monomer</td>
<td>84100-23-2</td>
<td>20-40</td>
<td>Skin Irr 2, Eye Irr 2, Skin Sens 1, STOT SE3, Aquatic Chronic 2</td>
<td>H315, H319, H317, H335, H411</td>
</tr>
<tr>
<td>Acrylate monomer</td>
<td>5888-33-5</td>
<td>10-20</td>
<td>Skin Irr 2, Eye Irr 2, Skin Sens 1, Aquatic Acute 1, Aquatic Chronic 1</td>
<td>H315, H319, H317, H400, H410</td>
</tr>
<tr>
<td>Acrylate monomer</td>
<td>48145-04-6</td>
<td>1-10</td>
<td>Skin Sens 1A, Aquatic Chronic 2</td>
<td>H317, H411</td>
</tr>
<tr>
<td>Acrylate monomer</td>
<td>63225-53-6</td>
<td>1-10</td>
<td>Skin Irr 2, Eye Irr 2, STOT SE3</td>
<td>H315, H319, H335</td>
</tr>
<tr>
<td>Acrylate monomer</td>
<td>2235-00-9</td>
<td>1-10</td>
<td>Acute Oral Tox 4, Acute Dermal Tox 4, Eye Irr 2, Skin Sens 1, STOT RE 1(inhalation, liver)</td>
<td>H302, H312, H319, H317, H372</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>5-10</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Inhibitor</td>
<td>52408-84-1</td>
<td>&lt;5</td>
<td>Eye Irr 2, Skin Sens 1</td>
<td>H319, H317</td>
</tr>
</tbody>
</table>
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. Remove and wash contaminated clothing before re-use.

**Inhalation**
Move to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water.

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

**Acute toxicity**
- **Eyes**
  Irritating to eyes
- **Skin**
  Irritating to skin
- **Inhalation**
  May cause irritation of respiratory tract
- **Ingestion**
  No known effect

**Chronic toxicity**
Repeated or prolonged skin contact with the unexposed coating may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Repeated or prolonged exposure may cause adverse liver effects.

**Main symptoms**
Overexposure may cause:
- Prolonged contact may produce skin, eye and respiratory tract irritation.

**Indication of immediate medical attention and special treatment needed**

**Protection of first-aiders**
No special protective equipment required

**Notes to physician**
Treat symptomatically. May cause sensitization by skin contact.

5. FIRE-FIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing media**
Water spray, Foam, Carbon dioxide (CO₂), Dry powder

**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**

**Flammable properties**
Not flammable. Will not readily ignite.

**Flash point**
94 °C (closed cup)

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
Prevent entry into waterways, sewers, basements or confined areas
Methods for cleaning up Wipe up with absorbent material (e.g. cloth, fleece)
Pick up and transfer to properly labeled containers
Clean contaminated surface thoroughly

Reference to other sections
Do not dispose of waste into sewer
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

Further information  Wear PPE as described in Section 8

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
Keep cool and protect from sunlight

Incompatible products  Alkali metals, Strong oxidizing agents, Peroxides, Inert Gases, Reducing agents, Free radical initiators

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>Titanium dioxide</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 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  Avoid contact with eyes. If splashes are likely to occur, wear: Goggles
Skin and body protection  Avoid any skin contact, Wear appropriate clothing to prevent repeated or prolonged skin contact
Hand protection  Protective gloves
9. PHYSICAL AND CHEMICAL PROPERTIES

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>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>94 °C (closed cup)</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>Water solubility</td>
<td>Negligible (acrylate mixture)</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>
</tbody>
</table>

Other information

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 Polymerization can occur

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

Incompatible materials to avoid
Alkali metals, Strong oxidizing agents, Peroxides, Inert Gases, Reducing agents, Free radical initiators

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

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>Acrylate monomer</td>
<td>4890 mg/kg (Rat)</td>
<td>5 g/kg (Rabbit)</td>
<td></td>
</tr>
</tbody>
</table>
Acrylate monomer | 4660 µL/kg (Rat) | 2540 µL/kg (Rabbit)
Titanium dioxide | 10000 mg/kg (Rat)
Acrylate monomer | 5 g/kg (Rat) | 3600 µL/kg (Rabbit)

Chronic toxicity
Sensitization | May cause sensitization of susceptible persons
Neurological Effects | No information available
Target organ effects | Liver

CMR Effects
Mutagenic effects | No information available
Reproductive toxicity | No information available
Carcinogenicity | This product contains one or more substances which are classified by IARC as potential carcinogenic to humans. However, under normal use conditions there is no human exposure to these substances.

See "Other Information" in this section.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B</td>
<td></td>
</tr>
</tbody>
</table>

Other information
The IARC (International Agency for Research on Cancer) has listed titanium dioxide as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of titanium dioxide in this mixture does not present a health hazard. The IARC classification is based on studies in rats using high concentrations of pure, unbound TiO2 particles of respirable size. The titanium dioxide in this mixture is dispersed in a liquid and is not expressed as “free” titanium dioxide. Therefore, this classification does not apply to this product.

Other toxic effects
Aspiration Hazard | No information available
Other adverse effects | Respiratory tract irritation

12. ECOLOGICAL INFORMATION

Toxicity
Acute Aquatic Toxicity | Toxic to aquatic life
Chronic Aquatic Toxicity | Toxic to aquatic life with long lasting effects

Persistence and degradability
No product level data available

Bioaccumulative potential
No product level data available

Mobility in soil
No product level data available

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Disposal considerations
Waste Disposal Methods | This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261)
Do not dispose of waste into sewer
14. TRANSPORT INFORMATION

Subject to regulation as noted below

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN/ID No</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Subsidiary hazard class</th>
<th>Packing Group</th>
<th>Exceptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s (isobornyl acrylate)</td>
<td>9</td>
<td>-</td>
<td>III</td>
<td>49CFR173.155(b)(2)</td>
</tr>
<tr>
<td>TDG</td>
<td>UN3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s (isobornyl acrylate)</td>
<td>9</td>
<td>-</td>
<td>III</td>
<td>1.17 Limited Quantities</td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>UN 3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s (isobornyl acrylate)</td>
<td>9</td>
<td>-</td>
<td>III</td>
<td>Section 2.6 Dangerous Goods in Excepted Quantities</td>
</tr>
<tr>
<td>IMDG/IMO</td>
<td>UN 3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s (isobornyl acrylate)</td>
<td>9</td>
<td>-</td>
<td>III</td>
<td>Chapter 3.4 - Dangerous Goods Packed in Limited Quantities Chapter 3.5 - Dangerous Goods in Excepted Quantities</td>
</tr>
</tbody>
</table>

Special Provisions

Marine Pollutant

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

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>Acrylate monomer</td>
<td>48145-04-6</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>Acrylate monomer</td>
<td>48145-04-6</td>
<td>1-10</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>Titanium dioxide</td>
<td>13463-67-7</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>Acrylate monomer</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

Issuing Date: 2016-08-30
Revision Date: 2017-03-25
Revision Note: Initial Release

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

- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H372 - Causes damage to organs through prolonged or repeated exposure if inhaled
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects

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.