

Safety Data Sheet

SDS # : K-12004

White UV Ink

Issuing Date 2016-08-30

Revision Date 2019-02-26

Version 2

Active

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE 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

Details of the supplier of the safety data sheet

Distributor Xerox Corporation
 Webster, NY 14580

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|--|------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin Sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Acute Aquatic Toxicity | Category 2 |
| Chronic Aquatic Toxicity | Category 2 |

Label elements

Symbol(s)



| | |
|---------------------------------|--|
| Signal Word | Danger |
| Hazard Statements | <p>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</p> |
| Precautionary Statements | <p>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 P272 - Contaminated work clothing should not be allowed out of the workplace 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 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</p> |

Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight % | Classification (Reg. 1272/2008) | Hazard Statements |
|------------------|------------|----------|---|--------------------------------------|
| Acrylate monomer | 84100-23-2 | 20-40 | Skin Irrit 2 Eye Irrit 2 Skin Sens 1 STOT SE3 Aquatic Chronic 2 | H315 H319 H317 H335 H411 |
| Acrylate monomer | 5888-33-5 | 10-20 | Skin Irrit 2 Eye Irrit 2 Skin Sens 1 Aquatic Acute 1 Aquatic Chronic 1 | H315 H319 H317 H400 H410 |
| Acrylate monomer | 48145-04-6 | 1-10 | Skin Sens 1A Aquatic Chronic 2 | H317 H411 |
| Acrylate monomer | 63225-53-6 | 1-10 | Skin Irrit 2 Eye Irrit 2 STOT SE3 | H315 H319 H335 |
| Acrylate monomer | 2235-00-9 | 1-10 | Acute Oral Tox 4 Acute Dermal Tox 4 Eye Irrit 2 Skin Sens 1 STOT RE 1 (inhalation, liver) | H302 H312 H319 H317 H372 |
| Titanium dioxide | 13463-67-7 | 5-10 | -- | -- |
| Mequinol | 150-76-5 | 0.1-<3.0 | Acute Oral Tox 4 Eye Irrit 2 Skin Sens 1 | H302 H319 H317 |

| | | | | |
|------------------|------------|----|---|----------------------|
| | | | Repr. 2 Aquatic Acute 3 | H361 H402 |
| Inhibitor | 52408-84-1 | <5 | Eye Irrit 2 Skin Sens 1 | H319 H317 |
| Acrylate monomer | 13048-33-4 | <5 | Skin Irrit. 2 Eye Irrit 2 Skin Sens 1 | H315 H319 H317 |

"--" indicates no classification or hazard statements apply.

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, 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

Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit

Other information

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

| Chemical Name | ACGIH TLV | OSHA PEL |
|------------------|---------------------------|---------------------------|
| Titanium dioxide | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ |
| Mequinol | TWA: 5 mg/m ³ | |

Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment (PPE)

Eye/Face protection Avoid contact with eyes, If splashes are likely to occur, wear:, Goggles

Hand protection Protective gloves

Skin and body protection Avoid any skin contact, Wear appropriate clothing to prevent repeated or prolonged skin contact

Respiratory protection Use only with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------|-----------------------|--------------------------|
| Appearance | Opaque | Odor | Slight acrylic |
| Physical state | Liquid | Odor threshold | No information available |
| Color | White | pH | No information available |

| | |
|-----------------------------------|-------------------------------|
| Flash point | 94 °C (closed cup) |
| Boiling point/range | No information available |
| Softening point | Not applicable |
| Evaporation rate | No information available |
| Flammability Limits in Air | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific gravity | No information available |
| Water solubility | Negligible (acrylate mixture) |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | Not determined |
| Viscosity | No information available |
| Explosive properties | Not explosive |
| Oxidizing properties | Not applicable |

Other information

None

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

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

| Chemical Name | Oral LD50 | Dermal LD50 | LC50 Inhalation |
|------------------|---------------------|-----------------------|-----------------|
| Acrylate monomer | 4890 mg/kg (Rat) | 5 g/kg (Rabbit) | |
| Acrylate monomer | 4660 µL/kg (Rat) | 2540 µL/kg (Rabbit) | |
| Titanium dioxide | 10000 mg/kg (Rat) | | |
| Mequinol | 1600 mg/kg (Rat) | 2000 mg/kg (Rabbit) | |
| 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.

| Chemical Name | IARC | NTP |
|------------------|------|-----|
| Titanium dioxide | 2B | |

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

Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|---------------|-------------------|--|----------------------------|---|
| Mequinol | | LC50= 84.3 mg/L Pimephales promelas 96 h LC50= 28.5 mg/L Oncorhynchus mykiss 96 h | | |

Persistence and degradability
 No product level data available

Bioaccumulative potential
 No product level data available

Mobility in soil

No product level data available

Component Information

| Chemical Name | log Pow |
|---------------|---------|
| Mequinol | 1.3 |

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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
 Should not be released into the environment
 Dispose of in accordance with all applicable local and national environmental laws and regulations

Waste from Residues/Unused Products

Use recommendations found in Section 7 when handling unused or uncured material
 Wear PPE as described in Section 8

Contaminated packaging

Do not re-use empty containers, 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

Subject to regulation as noted below
 Exceptions may apply

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

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 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:

| Chemical Name | CAS No. | SARA 313 - Threshold Values % |
|------------------|------------|-------------------------------|
| Acrylate monomer | 48145-04-6 | 1.0 |

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:

| Chemical Name | CAS No. | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|------------------|------------|----------|-----------|---------------|-------------------------|-------------------------|
| Acrylate monomer | 48145-04-6 | 1-10 | Present | | | |

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:

| Chemical Name | CAS No. | California Prop. 65 |
|------------------|------------|---------------------|
| Titanium dioxide | 13463-67-7 | Carcinogen |

U.S. State Right-to-Know Regulations

This product is subject to U.S. State Right-to-know regulations as noted below.

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------|---------------|------------|--------------|----------|--------------|
| Acrylate monomer | | X | X | X | |
| Titanium dioxide | X | X | X | | |
| Mequinol | X | X | X | | |

16. OTHER INFORMATION

Issuing Date 2016-08-30
Revision Date 2019-02-26
Revision Note (M)SDS sections updated:, 3

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
- H361 - Suspected of damaging fertility or the unborn child
- H372 - Causes damage to organs through prolonged or repeated exposure if inhaled
- H400 - Very toxic to aquatic life
- H402 - Harmful 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.

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