

# Safety Data Sheet

SDS # : K-12000

## Black - UV Ink

Issuing Date 2016-08-30

Revision Date 2019-02-26

Version 3

**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.** 008R08070

**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**

**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
Reproductive toxicity	Category 2
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**  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H317 - May cause an allergic skin reaction  
 H335 - May cause respiratory irritation  
 H361 - Suspected of damaging fertility or the unborn child  
 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  
 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

**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	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
Photoinitiator	75980-60-8	1-10	Skin Sens 1B Repr 2 Aquatic Acute 2 Aquatic Chronic 2	H317 H361 H401 H411
Acrylate monomer	66492-51-1	<5	Skin Irrit. 2	H315

			Eye Irrit. 2 Skin Sens. 1B Aquatic Acute 3	H319 H317 H402
Carbon black	1333-86-4	1-5	--	--
Acrylate monomer	13048-33-4	<5	Skin Irrit. 2 Eye Irrit 2 Skin Sens 1	H315 H319 H317
Inhibitor	15625-89-5	<5	Skin Irrit. 2 Eye Irrit 2 Skin Sens 1	H315 H319 H317
Mequinol	150-76-5	0.1-<3.0	Acute Oral Tox 4 Eye Irrit 2 Skin Sens 1 Repr. 2 Aquatic Acute 3	H302 H319 H317 H361 H402
Inhibitor	52408-84-1	<5	Eye Irrit 2 Skin Sens 1	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, May impair fertility

**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 (CO<sub>2</sub>), 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** Soak up with inert absorbent material, 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
Carbon black	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Mequinol	TWA: 5 mg/m <sup>3</sup>	

**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**

<b>Appearance</b>	Opaque	<b>Odor</b>	Slight acrylic
<b>Physical state</b>	Liquid	<b>Odor threshold</b>	No information available
<b>Color</b>	Black	<b>pH</b>	No information available

<b>Flash point</b>	94 °C (closed cup)
<b>Boiling point/range</b>	No information available
<b>Softening point</b>	Not applicable
<b>Evaporation rate</b>	No information available
<b>Flammability Limits in Air</b>	No information available

<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	Negligible (acrylate mixture)
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	Not determined
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	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**

<b>Hazardous reactions</b>	None under normal processing
<b>Hazardous polymerization</b>	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 )	
Carbon black	15400 mg/kg ( Rat )	3 g/kg ( Rabbit )	
Acrylate monomer	5 g/kg ( Rat )	3600 µL/kg ( Rabbit )	
Inhibitor	5190 µL/kg ( Rat )	5000 mg/kg ( Rabbit )	
Mequinol	1600 mg/kg ( Rat )	2000 mg/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**

Contains a known or suspected reproductive toxin  
Possible risk of impaired fertility

**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
Carbon black	2B	

**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

**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
Carbon black				EC50 > 5600 mg/L 24 h

Mequinol		LC50= 84.3 mg/L Pimephales promelas 96 h LC50= 28.5 mg/L Oncorhynchus mykiss 96 h		
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**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	UN3082	Environmentally hazardous substance, liquid, n.o.s (isobornyl acrylate)	9	-	III	Section 2.6 Dangerous Goods in Excepted Quantities
IMDG/IMO	UN3082	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
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**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
Carbon black	1333-86-4	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	
Carbon black	X	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**



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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  
H400 - Very toxic to aquatic life  
H401 - 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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