

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200) and Canada Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), as amended

SDS # : F-60061

Liquid Ink - Black

Issuing Date 24-Jun-2025

Revision date 18-Aug-2026

Revision Number 5

Restricted to professional users**1. Identification**Product identifier**Product Name**

Liquid Ink for Xerox® IJP900 Inkjet Press

Part no. 008R13352, 008R08166

Other means of identification

Color	Black
Pure substance/mixture	Mixture
Synonyms	None

Recommended use of the chemical and restrictions on use

Recommended use	Ink jet printing, For professional use only
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Restrictions on use	No information available.
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Details of the supplier of the safety data sheetSupplier Address

Xerox Corporation
800 Phillips Rd
Webster, NY 14580

Xerox Canada Ltd
2 Sheppard Ave. East, Suite 1200
Toronto, Ontario M2N 5Y7

Emergency telephone number

Initial supplier phone number	1-800-275-9376 (U.S. & Canada)
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Emergency Telephone	Safety Information US: (800) 275-9376 Chemical Emergency only (Chemtrec) (800) 424-9300
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E-mail address	askxerox@xerox.com
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For the most current document	https://safetysheets.business.xerox.com
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2. Hazard(s) identification

Classification

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1B

Label elements

Danger

**Hazard statements**

Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Precautionary Statements - Prevention

Wash hands thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Avoid breathing dust, fume, gas, mist, vapors and spray.

Contaminated work clothing must not be allowed out of the workplace.

Precautionary Statements - Response

IF exposed or concerned, get medical advice.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice and attention.

Skin

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice and attention.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Other information

Contains biocide(s).

Special Note

Contains a chemical that can cause an allergic reaction in susceptible people

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	GHS Classification
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Water	7732-18-5	40-50	-
3-Methyl-1,5-pentanediol	4457-71-0	15-25	Eye Irrit. 2 (H319)
Triethylene glycol, monobutyl ether	143-22-6	10-20	Eye Dam. 1 (C $\geq$ 30 %) (H318) Eye Irrit. 2 (20 % $\leq$ C < 30 %) (H319)
Carbon black	1333-86-4	5-10	--
Glycerin	56-81-5	4-8	-
2-Pyrrolidone	616-45-5	<4	Eye Irrit 2 (C $\geq$ 10 %) (H319) Repro Tox 1B (C $\geq$ 3 %) (H360)
Acrylate - based copolymer	Trade secret	1-2	-
2-methyl-2H-isothiazol-3-one	2682-20-4	<0.01	Acute Tox. 3 (oral) (H301) Acute Tox. 3 (dermal) (H311) Acute Tox. 2 (inhalation) (H330) Skin corr. 1B (H314) Eye Dam. 1 (H318) Skin sens. 1A (C $\geq$ 0.0015 %) (H317) Aquatic Acute 1 (M=10) (H400) Aquatic Chronic 1 (M=1) (H410)
1,2-Benzisothiazolin-3-one	2634-33-5	<0.036	Acute Tox. 2/inhal.(ATE = 0.21 mg/L, dusts or mists) (H330) Acute Tox. 4/oral (ATE = 450 mg/kg bw) (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (C $\geq$ 0.036 %) (H317) Aquatic Acute 1 (M = 1) (H400) Aquatic Chronic 1 (M = 1) (H410)

Full text of H- and EUH-phrases: see section 16

Note

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

4. First-aid measures

Description of first aid measures

General advice

For external use only. Get medical attention if irritation or other symptoms occur. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Prolonged contact may cause redness and irritation.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray or fog; do not use straight streams.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products Thermal decomposition can lead to release of irritating gases and vapors.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Personal precautions Avoid contact with skin and eyes. Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

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. Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information
See section 13 for more information

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. Avoid contact with skin and eyes. Do not ingest. If swallowed then seek immediate medical assistance.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Carbon black	TWA: 3 mg/m ³ inhalable particulate matter	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ ; TWA: 0.1 mg/m ³ ; Carbon black in presence of Polycyclic aromatic hydrocarbons PAH IDLH: 1750 mg/m ³
Glycerin	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-

Chemical name	Alberta	British Columbia	Ontario	Quebec
Carbon black	TWA: 3.5 mg/m ³ ;	TWA: 3 mg/m ³ ; inhalable	TWA: 3 mg/m ³ ; inhalable particulate matter	TWAEV: 3 mg/m ³ ; inhalable dust
Glycerin	TWA: 10 mg/m ³ ;	TWA: 10 mg/m ³ ; TWA: 3 mg/m ³ ; respirable	-	TWAEV: 10 mg/m ³ ; mist

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Carbon black	TWA: 3 mg/m ³ ; inhalable particulate matter	TWA: 3 mg/m ³ ; inhalable fraction	TWA: 3 mg/m ³ ; inhalable particulate matter	TWA: 3 mg/m ³ ; inhalable particulate matter

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Carbon black	TWA: 3.5 mg/m ³ ;	TWA: 3 mg/m ³ ;	TWA: 3.5 mg/m ³ ;	TWA: 3.5 mg/m ³ ;

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
	STEL: 7 mg/m ³ ;	inhalable particulate matter	STEL: 7 mg/m ³ ;	STEL: 7 mg/m ³ ;
Glycerin	TWA: 10 mg/m ³ ; STEL: 20 mg/m ³ ;		TWA: 10 mg/m ³ ; mist STEL: 20 mg/m ³ ; mist	TWA: 30 mppcf; mist TWA: 10 mg/m ³ ; mist

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing. Chemical resistant apron.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Thermal hazards None under normal processing.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state Liquid
Color Black
Odor (includes odor threshold) Slight

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	Not applicable	None known
Boiling point (or initial boiling point or boiling range)	Not applicable	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	Not flammable	
Lower flammability or explosive limits	Not flammable	
Flash point	> 100 °C / 212.0 °F	Cleveland Open Cup
Autoignition temperature	Not applicable	None known
Decomposition temperature	Not applicable	None known
SADT (°C)	No data available	None known
pH	8 - 9	@ 25 °C
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	5 - 10	None known

Dynamic viscosity	Not applicable	None known
Solubility	No data available	None known
Water solubility	Miscible in water	None known
Partition coefficient n-octanol/water (log value)	Not applicable	None known
Vapor pressure (includes evaporation rate)	Not applicable	None known
Evaporation rate	Not applicable	None known
Density and/or relative density	Not applicable	None known
Bulk density	Not applicable	
Liquid Density	Not applicable	
Relative vapor density	Not applicable	None known
Particle characteristics		None known
Particle Size	No data available	
Particle Size Distribution	No data available	

Other information

VOC content	No data available
Softening point	Not determined

Information with regard to physical hazard classes

Explosive properties	Not applicable
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10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Alkali. Metals. Peroxides.
Hazardous decomposition products	Undefined, but may include toxic oxides of carbon and nitrogen.

11. Toxicological information

Note: The toxicity data noted below is based on the test results of similar reprographic materials.

Information on likely routes of exposure**Product Information**

Inhalation	No known effects under normal use conditions.
Eye contact	Causes eye irritation.
Skin contact	Causes mild skin irritation.
Ingestion	No hazard from product as supplied.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Prolonged contact may cause redness and irritation.
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Acute toxicity**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

ATEmix (oral)	22,783.00 mg/kg
ATEmix (dermal)	9,445.30 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Triethylene glycol, monobutyl ether	= 5300 mg/kg (Rat)	= 3540 mg/kg (Rabbit)	-
Carbon black	> 10000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.6 mg/m ³ (Rat) 4 h
Glycerin	= 27200 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 5.85 mg/L (Rat) 4 h
2-Pyrrolidone	6500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 80 ppm (Rat) 8 h
2-methyl-2H-isothiazol-3-one	232 - 249 mg/kg (Rat) = 120 mg/kg (Rat)	= 200 mg/kg (Rabbit)	= 0.11 mg/L (Rat) 4 h
1,2-Benzisothiazolin-3-one	= 1020 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity Not mutagenic in AMES Test.

Carcinogenicity Carbon Black is classified by IARC (International Agency for Research on Cancer) as "possibly carcinogenic to humans" when present as "airborne, unbound particles of respirable size." This classification does not apply to liquid inks.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Carbon black	A3 - Confirmed animal carcinogen (with unknown relevance to humans)	Group 2B - Possibly carcinogenic to humans	-	Present

Reproductive toxicity Contains a known or suspected reproductive toxin.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects Although liquid ink is not an aquatic toxin, microplastics may be a physical hazard to aquatic life and should not be allowed to enter drains, sewers, or waterways.

12. Ecological information

Ecotoxicity Not considered to be harmful to aquatic life.

Do not allow into any sewer, on the ground or into any body of water

Aquatic ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
3-Methyl-1,5-pentanediol	-	LC50: >100mg/L (96h, <i>Oryzias latipes</i>)	-	-
Triethylene glycol, monobutyl ether	EC50: >500mg/L (72h, <i>Desmodesmus subspicatus</i>)	LC50: =2400mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: >500mg/L (48h, <i>Daphnia magna</i>)
Glycerin	-	LC50: 51 - 57mL/L (96h, <i>Oncorhynchus mykiss</i>)	-	-
2-Pyrrolidone	EC50: =250mg/L (72h, <i>Desmodesmus subspicatus</i>) EC50: =84mg/L (96h, <i>Desmodesmus subspicatus</i>)	LC50: 4600 - 10000mg/L (96h, <i>Brachydanio rerio</i>)	-	-

Terrestrial ecotoxicity Based on available data, the classification criteria are not met.

Persistence and degradability Not readily biodegradable.

Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
3-Methyl-1,5-pentanediol	0.03	-	-
Triethylene glycol, monobutyl ether	0.51	-	-
Glycerin	-1.75	-	-
2-Pyrrolidone	-0.71	-	-
2-methyl-2H-isothiazol-3-one	-0.26	-	-
1,2-Benzisothiazolin-3-one	0.99	-	-

Mobility in soil The product is insoluble and floats on water.

Other adverse effects No information available.

Endocrine disrupting properties This mixture does not contain any substance that has endocrine disrupting properties with respect to non-target organisms.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging Dispose of contents/containers in accordance with local regulations.

Other information Although liquid ink is not an aquatic toxin, microplastics may be a physical hazard to aquatic life and should not be allowed to enter drains, sewers, or waterways. Do Not Pour Product Down the Drain; Do Not Rinse the Container Before Disposal.

14. Transport information

Note: This material is not subject to regulation as a hazardous material for shipping

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Listed / Active or Exempt.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Water	7732-18-5	Present	Active
3-Methyl-1,5-pentanediol	4457-71-0	Present	Active
Triethylene glycol, monobutyl ether	143-22-6	Present	Active

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Carbon black	1333-86-4	Present	Active
Glycerin	56-81-5	Present	Active
2-Pyrrolidone	616-45-5	Present	Active
Acrylate - based copolymer	-	-	Unknown *
2-methyl-2H-isothiazol-3-one	2682-20-4	Present	Active
1,2-Benzisothiazolin-3-one	2634-33-5	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements.

DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.
TCSI	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US 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	SARA 313 - Threshold Values %
Triethylene glycol, monobutyl ether	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (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).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

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:

Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

Chemical name	California Proposition 65
Carbon black	Carcinogen

U.S. State Right-to-Know Regulations

Although this product contains substances included in some U.S. State Right-to-Know regulations, the particles are bound in a unique matrix and, therefore, the product does not pose any specific hazard.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
Triethylene glycol, monobutyl ether	X	-	X
Carbon black	X	X	X
Glycerin	X	X	X
2-Pyrrolidone	-	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA **Health hazards** 3 **Flammability** 1 **Instability** 0 **Special hazards** -
HMIS **Health hazards** 3 * **Flammability** 1 **Physical hazards** 0 **Personal protection** X
Chronic Hazard Star Legend * = Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

List may include phrases which are not applicable to this product

Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed
 H302 - Harmful if swallowed
 H311 - Toxic in contact with skin
 H314 - Causes severe skin burns and eye damage
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H330 - Fatal if inhaled
 H360 - May damage fertility or the unborn child
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)

AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory

TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 U.S. Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
 United Nations World Health Organization (WHO)

Revision date 18-Aug-2026

Revision Note SDS sections updated. 2.

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet