



Product Name: LUS-170 Black
SDS No. 037-U182956
First issue: 2017/09/11
Revised: 2025/04/04

Safety Data Sheets

1. Identification

Product Name : LUS-170 Black
Order No. : LUS17-K-BA
General Use : Ink jet printing ink
Product Description : UV Inkjet Ink
SDS Number : 037-U182956
Manufacture
Company Name : Mimaki Engineering Co., Ltd.
Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No. : +81-268-64-2413
Importer / Distributor Established in USA
Company Name : MIMAKI USA, INC.
Address : 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA 30542, U.S.A.
Telephone No. : +1-678-730-0170
Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)
+1 215 207 0061

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Category 4
Skin Corrosion / Irritation : Category 2
Eye Damage / Irritation : Category 1
Sensitization – Skin : Category 1A
Carcinogenicity : Category 2
Toxic to Reproduction : Category 1B
Specific Target Organ Toxicity (Repeated Exposure) : Category 1 (Liver, respiratory tract)

Environmental Hazards

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Hazardous to the Aquatic Environment - Acute Hazard : Category 2

Hazardous to the Aquatic Environment - Long Term Hazard : Category 2

The above list does not include category being non-classifiable or not-applicable.

[GHS Label Elements]

Symbol



Signal Word

Danger

Hazard Statements

H302 Harmful if swallowed.

H315 Causes skin irritation

H318 Cause serious eye damage

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure
(Liver, respiratory tract)

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's manual instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe gas/mist.

P264 Wash hands and eyes thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

[Response]

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

(P301)+P330 (IF SWALLOWED): Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(P305)+P310 (IF IN EYES): Immediately call a POISON CENTER or doctor/physician.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

[Storage]

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P405 Store locked up.
[Disposal]

P501 Dispose of contents/container in accordance with
local/regional/national/international regulation (to be specified).

[Other Information]

Hazards not otherwise classified (HNOC)

Not Applicable

Unknown Acute Toxicity

2.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

36.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

HMIS Rating (scale 0 – 4)

Health = 2

2	Health
1	Flammability
0	Reactivity
X	Protective Equipment

Flammability = 1

Reactivity = 0

Protective Equipment = X

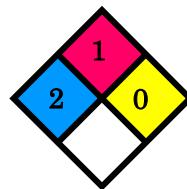
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special = -



3. Composition / Information on Ingredients

Common name and synonyms: No data available

Pure substance/mixture: Mixture

No	Chemical Name	Wt%	CAS No.
1	2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	20-30	2399-48-6
2	2-Propenoic acid, 2-phenoxyethyl ester	20-30	48145-04-6
3	2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	10-20	5888-33-5
4	2H-Azepin-2-one, 1-ethenylhexahydro-	5-15	2235-00-9
5	Acrylate monomer	5-10	Trade Secret
6	Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	5-10	75980-60-8
7	Photoinitiator	1-5	Trade Secret
8	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5	162881-26-7
9	Carbon black	1-5	1333-86-4
10	Additives	1-5	Trade Secret
11	Others	<1	Trade Secret

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4. First Aid Measures

[First aid measures]

General advice : Show this safety data sheet to the doctor in attendance. Do not delay care and transport of a seriously injured person. IF exposed or concerned: Get medical advice/attention.

Inhalation : Move victim to fresh air. Get medical attention.

Eye Contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Immediately call a POISON CENTER or doctor/physician.

Skin Contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

Ingestion : Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention.

Self-protection of the first aider : Wear personal protective clothing (see section 8). Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

[Most important symptoms and effects, both acute and delayed]

Symptoms : Prolonged contact may cause redness and irritation. May cause blindness. Coughing and/ or wheezing. Hives. Itching. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Rashes.

[Indication of any immediate medical attention and special treatment needed]

Note To Physician : May cause sensitization of susceptible persons.

5. Fire Fighting Measures

Flammable Properties : Flash point : 95°C/ 203° F

Extinguishing Media : Use CO₂, dry chemical, or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media : Do not use a solid water stream as it may scatter and spread fire.

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Specific hazards arising from the chemical	: Risk of ignition. The product causes irritation of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Product is or contains a sensitizer. The product causes burns of eyes, skin and mucous membranes.
Explosion data	: Sensitivity to Mechanical Impact; None. Sensitivity to Static Discharge; Yes.
Protective equipment and precautions for firefighters	: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental Release Measures

[Personal precautions, protective equipment and emergency procedures]

Personal Precautions	: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.
Other Information	: Refer to protective measures listed in Sections 7 and 8.

[For emergency responders]

: Use personal protection recommended in Section 8.

[Environmental precautions]

Environmental precautions	: Prevent entry into waterways, sewers, basements or confined areas.
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[Methods and material for containment and cleaning up]

Methods for containment	: Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for cleaning up	: Use personal protective equipment as required. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
Prevention of secondary hazards	: Local authorities should be advised if significant spillages cannot be contained.

7. Handling and Storage

[Precautions for safe handling]

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Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Do not eat, drink or smoke when using this product.

[Conditions for safe storage, including any incompatibilities]

Storage Conditions : Keep away from heat. Keep container tightly closed. Keep in properly labeled containers. Store locked up.

Incompatible materials : Strong oxidizing agents. Finely powdered metals.

8. Exposure Controls / Personal Protection

[Control parameters]

Exposure Limit Values

No	Chemical Name	OSHA PEL	ACGIH	NIOSH IDLH
1	Carbon black 1333-86-4	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	3 mg/m ³ TWA (inhalable particulate matter)	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
2	Caprolactam 105-60-2	(vacated) TWA: 1 mg/m ³ dust (vacated) TWA: 5 ppm vapor (vacated) TWA: 20 mg/m ³ vapor (vacated) STEL: 3 mg/m ³ dust (vacated) STEL: 10 ppm vapor (vacated) STEL: 40 mg/m ³ vapor	TWA: 5 mg/m ³ inhalable fraction and vapor	TWA: 1 mg/m ³ dust TWA: 0.22 ppm vapor TWA: 1 mg/m ³ vapor STEL: 3 mg/m ³ dust STEL: 0.66 ppm vapor STEL: 3 mg/m ³ vapor

Caprolactam is non-intentionally added substance, contains less than 1% in the product.

[Appropriate engineering controls]

Engineering Controls : Showers
Eyewash stations
ventilation systems

[Individual protection measures, such as personal protective equipment]

Respiratory Protection : Vapor mask.



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Glove : Impervious gloves.

Recommendations



Eye /Face Protection : Face protection shield. Tight sealing safety goggles.



Skin Protection



: Rubber boots. Long sleeved clothing. Impervious clothing. Chemical resistant apron.

General Hygiene Considerations

: Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapors/spray.

9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

Appearance	- Physical State	: liquid
	- Color	: black
Odor		: Characteristic odor
Odor Threshold		: No data available
pH		: No data available
Melting point/freezing point		: No data available
Boiling point/boiling range		: No data available
Flash point		: 95 °C / 203 °F (Acceptance by the lowest flash point)
Evaporation rate		: No data available
Flammability (solid, gas)		: No data available
Flammability Limits in Air		
Upper flammability limits		: No data available
Lower flammability limit		: No data available

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Vapor Pressure	: No data available
Vapor density	: No data available
Specific gravity	: 1.0-1.1
Solubility(ies)	: Immiscible in water
Partition coefficient	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 7-12 mPa·s(25 deg.C)

[Other Information]

Molecular weight	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Softening point	: No data available
VOC Content (%)	: No data available
Density	: No data available
Bulk density	: No data available

10. Stability and Reactivity

Reactivity	: No information available.
Chemical Stability	: Stable under the normal storage and use.
Possibility of Hazardous Reactions	: No information available.
Reactions	
Hazardous polymerization	: None under normal processing.
Conditions to Avoid	: Heat, flames and sparks.
Incompatible Materials	: Strong oxidizing agents. Finely powdered metals.
Hazardous Decomposition	: None known based on information supplied.
Products	

11. Toxicological Information

[Information on likely routes of exposure]

Inhalation	: Irritating to respiratory system.
Eye contact	: Irritating to eyes Causes serious eye damage May cause irreversible damage to eyes.
Skin Contact	: Causes skin irritation Repeated or prolonged skin contact may

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cause allergic reactions with susceptible persons.

Ingestion : Harmful if swallowed. Ingestion may cause irritation to mucous membranes. May be harmful if swallowed and enters airways.

[Information on toxicological effects]

Symptoms : Coughing and/ or wheezing. May cause redness and tearing of the eyes. Redness. Burning. May cause blindness. Hives. Itching. May cause allergic skin reaction. Rashes.

[Numerical measures of toxicity]

[Acute toxicity]

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Product	ATEmix = 1873.1 mg/kg	ATEmix = 2216.5 mg/kg	-

[Component Information]

In calculating the ATE for product classification, the converted acute toxicity value estimate is used.

[Unknown acute toxicity]

2.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

36.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

Skin corrosion : Based on available data, the classification criteria are not met.

In Vitro Acute Dermal Corrosivity Study Episkin test: GLP OECD TG431. In this in vitro EPISKIN model test with similar product, the result indicates that the product is non-corrosive to the skin.

Skin irritation : Classification is based on mixture calculation methods based on component data. Irritating to skin.

Serious eye damage/eye irritation : Classification is based on mixture calculation methods based on component data. Risk of serious damage to eyes.

Respiratory or skin sensitization : Classification is based on mixture calculation methods based on component data. May cause sensitization by skin contact. May cause sensitization in susceptible persons.

Germ cell mutagenicity : Classification is based on mixture calculation methods based on component data. Based on available data, the classification criteria are not met.

Carcinogenicity : Classification is based on mixture calculation methods based on



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component data. Contains a known or suspected carcinogen. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity : Classification is based on mixture calculation methods based on component data. Contains material that may cause adverse reproductive effects

STOT - single exposure : Classification is based on mixture calculation methods based on component data. Based on available data, the classification criteria are not met.

STOT - repeated exposure : Classification is based on mixture calculation methods based on component data. Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Classification is based on mixture calculation methods based on component data. Based on available data, the classification criteria are not met.

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Ecotoxicity : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Carbon black	-	-	-	EC50(24h): > 5600 mg/L (Daphnia magna)



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Caprolactam	EC50 (72h): = 130 mg/L (<i>Desmodesmus subspicatus</i>)	LC50(96h, static): = 930 mg/L (<i>Lepomis macrochirus</i>)	-	EC50(48h): 828 - 2920 mg/L (<i>Daphnia magna</i>)
	EC50 (96h): = 160 mg/L (<i>Desmodesmus subspicatus</i>)	LC50(96h, static): = 1400 mg/L (<i>Pimephales promelas</i>)		EC50(48h): > 500 mg/L (<i>Daphnia magna Straus</i>)
	EC50 (72h): 4320 - 4800 mg/L (<i>Pseudokirchneriella subcapitata</i>)			

Caprolactam is non-intentionally added substance, contains less than 1% in the product.

Persistence and : No data available.

degradability

Bioaccumulation : No data available.

Mobility : No data available.

Other adverse effects : No data available.

13. Disposal Considerations

[Waste treatment methods]

Disposal Methods : Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

Disposal of wastes : Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging : Disposal should be in accordance with applicable regional, national and local laws and regulations. Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

[DOT]

UN/ID no : UN3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,
exo-, 2-Propenoic acid, 2-phenoxyethyl ester)



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Hazard Class	: 9
Packing Group	: III
Special Provisions	: 8, 146, 173, 335, IB3, T4, TP1, TP29
Emergency Response Guide Number	: 171
Description	: UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[TDG]

UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Marine pollutant	: This material meets the definition of a marine pollutant
Description	: UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[MEX]

UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Special Provisions	: 274, 331, 335
Description	: UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[IATA]

UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III



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Special Provisions : A197 *1
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.
(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,
exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[IMDG]

UN/ID no : UN3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,
exo-, 2-Propenoic acid, 2-phenoxyethyl ester)
Hazard Class : 9
Packing Group : III
EmS-No : F-A, S-F
Special Provisions : 2.10.2.7 *1
Marine pollutant : This material meets the definition of a marine pollutant
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.
(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,
exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III
Environmental hazard : Yes

*1: Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations - see UN Special Provision.

15. Regulatory Information

[International Inventories]

TSCA-US-Toxic : All ingredients of this product are registered on TSCA Active Substances Control inventory.

Act

TSCA 5e-US-Toxic : This product contains components registered as TSCA 5(e) Substances Control

Act Section 5e

DSL-Canada-Domestic : Not listed Substances List

[US Federal Regulations]

[SARA313]

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.

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Chemical Name	CAS No.	weight-%	SARA 313 - Threshold Values %
2-Propenoic acid, 2-phenoxyethyl ester - 48145-04-6 (Glycol ethers)	48145-04-6	20-30	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 which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

[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

: **WARNING**

Proposition 65



This product can expose you to chemicals including Benz[a]anthracene, Benzo[a]pyrene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Carbon black, Dibenz[a,h]anthracene, Naphthalene, Toluene, Benzene, Bisphenol A which are known to the State of California to cause cancer/ birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

EPA Pesticide

: Not Applicable

Registration Number

16. Other Information

References	: LOLI Database (ChemADVISOR, Inc.) Hazard Communication Standard (HCS2012) □ 29 CFR 1910.1200
The reference on GHS classification results	: EU CLP(1272/2008) Annex VI Table 3 IARC (International Agency for Research on Cancer) NTP (National Toxicology Program)



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Other Information

: This formulation contains a maximum of 1% of a SNUR chemical which is prohibited from release to water. The product or its wastes should either be pretreated before discharge to sewerage systems according to federal regulations or disposed of by incineration or other state or federal approved methods.

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