

SAFETY DATA SHEET

SOLITHANE® S 113

LANXESS
Energizing Chemistry

Version 2.0 Revision Date: 07/09/2020 SDS Number: 40000002731 Date of last issue: 09/04/2018
Date of first issue: 12/05/2014

SECTION 1. IDENTIFICATION

Product name: SOLITHANE® S 113

Product Use Description: Polymer

Synonyms: Polyurethane prepolymer

Company: LANXESS Solutions US Inc.
2 Armstrong Road
Shelton, CT
06484
United States of America (USA)
Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC
(24 hours) 800-424-9300
US : 800-292-5898 (Technical inquiries)
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-430-2775
MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use: Polymer

Restrictions on use: Reserved for industrial and professional use

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation): Category 2

Respiratory sensitisation: Category 1

Skin sensitisation: Category 1

Carcinogenicity: Category 2

GHS label elements

Hazard pictograms:



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Signal word: Danger

Hazard statements: H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.

Precautionary statements: Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

Substance name: Polyurethane prepolymer

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
m-tolylidene diisocyanate	26471-62-5	>= 5 - < 10

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SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.
Give oxygen or artificial respiration if needed.
Get medical attention immediately.
- In case of skin contact : Remove contaminated clothing and shoes.
Wash off with soap and plenty of water.
Obtain medical attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
If symptoms persist, call a physician.
- If swallowed : Get medical attention immediately.
- Most important symptoms and effects, both acute and delayed : Lachrymation
Breathing difficulties
sensitising effects
- Protection of first-aiders : First Aid responders should pay attention to self-protection
and use the recommended protective clothing.
If potential for exposure exists refer to Section 8 for specific
personal protective equipment.
- Notes to physician : Oxygen, if needed.
For specialist advice physicians should contact the Poisons
Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Dry chemical
- Specific hazards during fire-fighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to
health.
- Further information : Fight fire with normal precautions from a reasonable distance.
Keep away from fire, sparks and heated surfaces.
Use water spray to cool unopened containers.
Do not allow uncontrolled discharge of product into the environment.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear suitable protective equipment.

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- Environmental precautions : Do not allow contact with soil, surface or ground water.
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Prevent further leakage or spillage if safe to do so.
Ventilate the area.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Pick up and transfer to properly labelled containers.
Flush with plenty of water.
Do not flush into surface water or sanitary sewer system.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes and clothing.
Use only with adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Open drum carefully as content may be under pressure.
Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.
- Conditions for safe storage : Keep container tightly closed.
Keep in a dry, cool and well-ventilated place.
Keep under nitrogen.
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.
- Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
m-tolylidene diisocyanate	26471-62-5	C	0.02 ppm 0.14 mg/m ³	OSHA Z-1
		TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH
		C	0.02 ppm 0.14 mg/m ³	OSHA Z-1
		TWA	0.005 ppm 0.04 mg/m ³	OSHA P0
		STEL	0.02 ppm 0.15 mg/m ³	OSHA P0
		TWA	0.005 ppm 0.04 mg/m ³	OSHA P0

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STEL	0.02 ppm	OSHA P0
TWA (Inhalable fraction and vapor)	0.15 mg/m ³ 0.001 ppm	ACGIH
STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
m-tolylidene diisocyanate	26471-62-5	toluene diamine	Urine	End of shift	5 µg/g creatinine	ACGIH BEI

Engineering measures

Maintain air concentrations below occupational exposure standards.
Ensure that extracted air cannot be returned to the workplace through the ventilation system.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Respirator with combination filter for vapour/particulate

Filter type : Filter type AB-P

Combined particulates, inorganic gas/vapour and organic vapour type

Hand protection

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : 0.4 - 0.6 mm

Remarks

Before removing gloves clean them with soap and water.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection

Safety glasses with side-shields or
Safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Purge open drums with nitrogen before resealing.
Allergic reactions may develop after inhalation of low concentration.

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trations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.
Wash hands before breaks and at the end of workday.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : light yellow
Odour : pungent
Odour Threshold : No data available
pH : Not applicable
Melting point/range : Not applicable
Boiling point/boiling range : No data available
Flash point : 302 - 347 °F / 150 - 175 °C
Method: closed cup
Evaporation rate : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : 1.073
Density : No data available
Solubility(ies)
Water solubility : No data available
Solubility in other solvents : soluble
Solvent: Tetrahydrofuran
soluble
Solvent: Dimethylformamide
Partition coefficient: n-octanol/water : No data available

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Auto-ignition temperature : No data available
Decomposition temperature : No data available
Self-Accelerating decomposition temperature (SADT) : Method: No information available.
Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Oxidizing potential : No information available.
Molecular weight : No data available

SECTION 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 polymerisation does not occur.
Conditions to avoid : Exposure to moisture
Incompatible materials : Alcohols
: Strong oxidizing agents
: Water
Hazardous decomposition products : Carbon oxides
: Nitrogen oxides (NOx)
: Hydrocarbons
: Isocyanates

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Eye contact
Skin contact
Skin absorption
Acute toxicity
Product:
Acute inhalation toxicity : Acute toxicity estimate: 1.11 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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Components:

m-tolylidene diisocyanate:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 0.1 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg

Skin corrosion/irritation

Components:

m-tolylidene diisocyanate:
Species : Rabbit
Result : Severe skin irritation

Serious eye damage/eye irritation

Components:

m-tolylidene diisocyanate:
Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

m-tolylidene diisocyanate:
Species : Guinea pig
Assessment : May cause sensitisation by skin contact.
Result : Causes sensitisation.

Carcinogenicity

IARC

Group 2B: Possibly carcinogenic to humans
m-tolylidene diisocyanate
(toluene diisocyanates) 26471-62-5

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Reasonably anticipated to be a human carcinogen
m-tolylidene diisocyanate
(Toluene Diisocyanates) 26471-62-5

Further information

Product:
Remarks : The product itself has not been tested.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

- m-tolylidene diisocyanate:
- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 147 mg/l
Exposure time: 48 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): 133 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Palaeomonetes vulgaris (Grass shrimp)): > 508 mg/l
Exposure time: 48 h
- EC50 (Daphnia magna (Water flea)): 12.5 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 4,300 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.1 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Possible decomposition products in case of hydrolysis are:
Diaminotoluene (TDA)

Persistence and degradability

Product: Biodegradability : Result: No data available

Bioaccumulative potential

Product: Bioaccumulation : Remarks: No data available

Mobility in soil

Product: Mobility : Remarks: No data available

Other adverse effects

Product: Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : There is no data available for this product.

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nation

The product itself has not been tested.
The following information is applicable to a component of this material.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.
Waste must be classified and labelled prior to recycling or disposal.
Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR : UN 2078
UN/ID No. : Toluene diisocyanate
Proper shipping name : 6.1
Class : II
Packing group : Toxic
Labels :

IMDG-Code

UN number : UN 2078
Proper shipping name : TOLUENE DIISOCYANATE
Class : 6.1
Packing group : II
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR : UN 2078
UN/IDNA number : Toluene diisocyanate
Proper shipping name : 6.1
Class : II
Packing group : TOXIC
Labels : 156
ERG Code : no
Marine pollutant :

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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
m-tolylidene diisocyanate	26471-62-5	100	1111

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards		
Acute toxicity (any route of exposure)		
Respiratory or skin sensitisation		
Carcinogenicity		

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

m-tolylidene diisocyanate 26471-62-5 9 %

California Prop. 65

WARNING: This product can expose you to chemicals including m-tolylidene diisocyanate, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

m-tolylidene diisocyanate	26471-62-5
California Permissible Exposure Limits for Chemical Contaminants	
m-tolylidene diisocyanate	26471-62-5

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
ALCS	: On the inventory, or in compliance with the inventory
NZIOC	: Not in compliance with the inventory

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ENCS

: On the inventory, or in compliance with the inventory

KECI

: On the inventory, or in compliance with the inventory

PICCS

: Not in compliance with the inventory

IECSC

: On the inventory, or in compliance with the inventory

TCSI

: On the inventory, or in compliance with the inventory

US TSCA

: All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
m-tolylidene diisocyanate 26471-62-5

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

Latin America:	Brazil	+55 11 3197 5891
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 55 5004 8763

Full text of other abbreviations

ACGIH	: USA, ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
OSHA PO	: USA, OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	: USA, Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / STEL	: short-term exposure limit
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
OSHA PO / TWA	: 8-hour time weighted average
OSHA PO / STEL	: Short-term exposure limit
OSHA Z-1 / C	: Ceiling

ALCS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EMS - Emergency

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Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; LC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZLoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OHPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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 guide 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.

US / EN



SAFETY DATA SHEET

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Version 1.0
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Date of last issue: -
Country / Language: US / EN



SECTION 1. IDENTIFICATION

Product name : SOLITHANE® C 113 300
Product code : 000000000058324862

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
15275-1112 Pittsburgh, United States of America

Responsible Department : +1800LANXESS
Emergency telephone : Chemtrec (800) 424-9300
International (703) 927-3887
Lanxess Emergency Phone (800) 410-3063

Recommended use of the chemical and restrictions on use

Recommended use : Used in polyurethane manufacturing.
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

Substance name : Castor oil

Components

No hazardous ingredients

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SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.
If symptoms persist, call a physician.
In case of skin contact : Wash off with warm water and soap.
In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
If symptoms persist, call a physician.
If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms : None known.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - large fires
Alcohol-resistant foam
(on small fires)
Carbon dioxide (CO2)
Dry chemical
Water spray

Unsuitable extinguishing media : Water spray jet

Specific hazards during fire : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : No hazardous combustion products are known

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.

Environmental precautions : Do not allow contact with soil, surface or ground water. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up :
: Dam up.
: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
: Pick up and transfer to properly labeled containers.
: Large spills should be collected mechanically (remove by pumping) for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
: Avoid contact with skin, eyes and clothing.
: Use with adequate ventilation.

Conditions for safe storage : Keep in a dry, cool place.

Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Remarks : ImperVIOUS gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Preventive skin protection

Hygiene measures : Use with adequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance

: oily, liquid

Color

: light yellow

Odor

: slight

Odor Threshold

: No data available

pH

: Not applicable

Melting point/range

: Not applicable

Boiling point/boiling range

: No data available

Flash point

: 392 - < 482 °F / 200 - < 250 °C

Method: closed cup

Evaporation rate

: No data available

Self-ignition

: No data available

Burning number

: No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure

: No data available

Relative vapor density

: No data available

Relative density

: 0.96

Density

: 0.885 g/cm3

Solubility(ies)

: insoluble

Water solubility

: insoluble

Solubility in other solvents

: No data available

Partition coefficient n-octanol/water : No data available

Autoignition temperature

: No data available

Decomposition temperature

: No data available

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Self-Accelerating decomposition temperature (SADT) : Method: No information available.

Viscosity : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

SECTION 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 polymerization does not occur.
Conditions to avoid : Extremes of temperature and direct sunlight.
Incompatible materials : Strong oxidizing agents
Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

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Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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Bioaccumulative potential

Product:

Bioaccumulation

Remarks: No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authority : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : Dispose of waste material in compliance with all federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good
Hazard and Handling Notes : Not dangerous cargo. Keep separated from foodstuffs

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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Vegetable Oil 8001-79-4 100

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

TSCA Inventory

: All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

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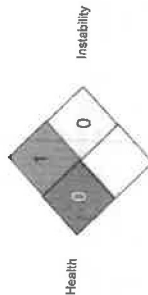
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NFPA 704:

Flammability



HMIS® IV:

HEALTH	0
FLAMMABILITY	1
INSTABILITY	0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "0" represents a chronic hazard, while the "1" represents the absence of a chronic hazard.

Special hazard

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EMS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ERCS - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECl - Korea 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADI - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory;

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TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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