

Safety Data Sheet



Trade Name: US-730S Surfactant

SECTION 1. IDENTIFICATION

Date of Issue: 3.14.2019

Product Name: US-730S Surfactant

Chemical Name: Surfactant

Other means of identification:

Preparation of polyether modified polysiloxanes

Recommended use of the chemical and restrictions on use:

Recommended use: Industrial production of polyurethane foam articles

Recommended restrictions: Uses other than as recommended above

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SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Toxic to Reproduction – Category 2

GHS Signal word: Warning

GHS Hazard statement(s): H361 Suspected of damaging fertility or the unborn child



GHS Hazard symbol(s):

GHS Precautionary statement(s): Prevention – Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response – If exposed or concerned, get medical attention.

Storage – Store locked up

Disposal – Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazard(s) not otherwise Classified (HNOC): None known

Percentage of ingredient(s) of unknown acute toxicity: Not applicable.

SECTION 3: Composition/Information on ingredients

Mixture: Preparation of polyether modified polysiloxanes

Chemical name	CAS#	Concentration (weight %)
Octamethylcyclotetrasiloxane	556-67-2	0.5 - 3%
Non-hazardous Polyether Modified Siloxane Preparation	Trade Secret	Balance

Note: The manufacturer has claimed one or more ingredients as trade secret under the OSHA Hazard Communication Standard. All components of the trade secret composition are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Move person to fresh air. If effects occur, consult a physician.

Skin contact: In case of contact, wash off with plenty of water

Eye contact: Flush eyes thoroughly with water for several minutes. May also produce an oil film over the eye-ball causing a short lasting (but harmless) dimness in sight.

If longer lasting effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: Thoroughly wash mouth. In the event of symptoms, seek medical attention.

Most important symptoms/effects, acute and delayed: Aside from the information presented above under First Aid measures, any additional known symptoms or effects are described in Section 11

Indication of immediate medical attention and special treatment needed: If any symptoms are observed, contact a physician and give them this SDS sheet. If concerned: Get medical advice/attention. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Foam, carbon dioxide, dry powder, or water spray

Unsuitable extinguishing media: full water jet (may spread fire)

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

During a fire, smoke may contain the original material in addition to the combustion products of varying composition which may be toxic and/or irritating. Combustion product may include but are not limited to: Carbon monoxide, carbon dioxide, silicon dioxide. Container may rupture from gas generation in a fire situation. Violent stream generation or eruption may occur upon application of direct water stream to hot liquids.

Special protective equipment and precautions for fire-fighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire-fighting operations. If contact is likely, change to full chemical resistant fire-fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Isolate area. Refer to section 7, Handling, for additional precautionary measures. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Absorb with materials such as: Dirt. Sand. Sawdust. Collect in suitable and properly labeled containers. Wash the spill site with water. See Section 13, Disposal Considerations, for additional information.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Keep away from sources of ignition – no smoking. Cool endangered containers by water spray. Take precautionary measures against electrostatic loading. Vapors may form an explosive mixture with air. Do not taste or swallow. Do not get in eyes, on skin, on clothing. Use personal protective equipment as required. Wash hands after handling.

Conditions for safe storage, including any incompatibles: Keep tightly closed in a cool well-ventilated place. Keep away from sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

Octamethylcyclotetrasiloxane – 5 ppm TWA

Exposure controls

Engineering controls: General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Eye wash facilities and emergency shower must be available when handling this product.

Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl").

Other protection: Wear clean, body-covering clothing.

Respiratory protection: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Liquid
Form:	Medium viscosity fluid
Color:	Yellowish

Odor:	Mild – specific to the product
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	< 0 °C
Initial boiling point and boiling range:	< 1500 °C
Flash point:	> 109 °C (Closed cup)
Evaporation rate:	Not available
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower %:	Not available
Flammability limit – upper %:	Not available
Explosive limit – lower (%):	Not available
Explosive limit – upper (%):	Not available
Vapor pressure:	< 1.33 hPa (20 °C)
Vapor density:	> 1
Relative density:	1.05
Solubility (ies):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (dynamic):	912 @ 23 degrees C
% Volatile:	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not available.
Chemical stability:	Stable under normal ambient conditions and anticipated conditions of use.
Possibility of hazardous reactions:	Hazardous reactions not anticipated with product alone.
Conditions to avoid:	Product can oxidize at elevated temperatures. Generation of gas during decomposition can create pressure in closed storage vessels.
Incompatible materials:	Not known.
Hazardous decomposition products:	Include but are not limited to carbon dioxide, silicone dioxide, carbon monoxide, alcohols, ethers, ketones, other polymer fragments and hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

Small amounts swallowed as a result of normal handling operations are not likely to cause injury.

Typical for this family of materials.

Octamethylcyclotetrasiloxane:

LD50, Rat > 4800 mg/kg

LD50, Mouse > 1700 mg/kg

Acute dermal toxicity

Octamethylcyclotetrasiloxane:

LD50, Rat > 2400 mg/kg

Acute inhalation toxicity

Octamethylcyclotetrasiloxane:

LC50, Rat > 12.1 mg/l

Skin corrosion/irritation

Octamethylcyclotetrasiloxane:

Rabbit, slightly irritating

Serious eye damage/eye irritation

Octamethylcyclotetrasiloxane:

Rabbit, slightly irritating

Sensitization

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

No relevant data found.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

No relevant data found.

Carcinogenicity

No relevant data found.

Teratogenicity

No relevant data found.

Reproductive toxicity

No relevant data found.

Mutagenicity

No relevant data found.

Aspiration Hazard

No aspiration toxicity classification.

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish: No data available

Persistence and degradability

Biodegradability: No data available

Bioaccumulative potential

Bioaccumulation: No data specific to this material is available. No bioconcentration is expected because of the relatively high molecular weights.

Mobility in soil No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. For unused and uncontaminated product, the preferred options include sending to a licensed and permitted recycler or reclaimer, and incineration or destruction in an appropriate thermal device.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Not regulated for transport

Maritime transport IMDG

Not regulated for transport.

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

No further relevant information available.

Air transport ICAO-TI and IATA-DGR

Not regulated for transport

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

No data available

SECTION 15: REGULATORY INFORMATION

USA:

United States Federal Regulations: Octamethylcyclotetrasiloxane: De minimis concentration: TSCA Section 4: 1.0% One time Export Notification only.

Toxic Substances Control Act (TSCA) – All components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substance List, 40 CFR 302.4:

No components listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard – No

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None listed

Section 311 hazardous chemical: Octamethylcyclotetrasiloxane: Threshold Planning Quantity – 10000 lbs

SARA Section 313 (Specific toxic chemical listings): Diethylene Glycol Butyl Ether (CAS #112-34-5)

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): No components are listed on Prop 65.

NJ Worker and Community Right-to-Know Act Silicone Polyalkyleneoxide Copolymer, Polyalkyleneoxide, Polyalkylene Glycol, Octamethylcyclotetrasiloxane: Decamethylpentaasiloxane:

SECTION 16: OTHER INFORMATION

Revision Date: May 12, 2020

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any legal liability for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.