

# Safety Data Sheet



**Trade Name:** US-228S Surfactant

## SECTION 1. IDENTIFICATION

**Date of Issue:** 9.17.2019

**Product Name:** US-228S 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

**Company Name:** Urethane Sciences, LLC

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Berlin, NJ 08009

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**Company Contact Email:** info@usci.net

**Emergency Phone:** ChemTrec (24 Hours): 1-800-424-9300  
(Outside of USA 202-366-4488)

## SECTION 2: HAZARD(S) IDENTIFICATION

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

This product is not classified as hazardous in accordance with paragraph (d) of §1910.1200

**GHS Signal word:** Not a hazardous substance.

**GHS Hazard statement(s):** Not a hazardous substance.

**GHS Hazard symbol(s):** Not a hazardous substance.

**GHS Precautionary statement(s):** Not a hazardous substance.

## US-228S Surfactant

**Hazard(s) not otherwise classified (HNOC):** None

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

### SECTION 3: Composition/Information on ingredients

**Mixture:** Preparation of polyether modified polysiloxanes foam

Chemical name	CAS#	Concentration (weight %)
Non-hazardous Polyether Modified Siloxane Preparation	Trade Secret	100%

Note: The balance of the ingredients 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.

The manufacturer has claimed one or more ingredients as trade secret under the OSHA Hazard Communication Standard.

### 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 into fresh air and keep at rest. Get medical attention if symptoms occur.

**Skin contact:** In case of contact, wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**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:** DO NOT induce vomiting. Get medical attention immediately. Do not give victim anything to drink if he is unconscious. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

**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. Measurements at temperatures above 150 C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**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.

**Conditions for safe storage, including any incompatibles:** Keep tightly closed in a cool well-ventilated place

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Contains no substances with occupational exposure limit values

**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: While this material is not classified as hazardous, use of safety glasses (with side shields) is recommended.

**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**

<b>Physical state:</b>	<b>Liquid</b>
<b>Form:</b> Medium viscosity fluid	
<b>Color:</b> Yellowish	
<b>Odor:</b>	<b>Mild – specific to the product</b>
<b>Odor threshold:</b>	<b>Not available</b>
<b>pH:</b> Not available	
<b>Melting point/freezing point:</b>	<b>Not available</b>
<b>Initial boiling point and boiling range:</b>	<b>Not available</b>
<b>Flash point:</b> > 160 oC (Closed cup)	
<b>Evaporation rate:</b>	<b>Not available</b>
<b>Flammability (solid, gas):</b>	<b>Not applicable</b>
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	<b>Not available</b>
<b>Flammability limit – upper (%):</b>	<b>Not available</b>

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Explosive limit – lower (%):	Not available
Explosive limit – upper (%):	Not available
Vapor pressure:	Negligible at room temperature
Vapor density:	Not available
Relative density:	0.98
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):	100 cP @ 23 degrees C
% Volatile:	Not volatile at or near room temperature

### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not available.
<b>Chemical stability:</b>	Stable under normal ambient conditions and anticipated conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous reactions not anticipated with product alone.
<b>Conditions to avoid:</b>	Product can oxidize at elevated temperatures. Generation of gas during decomposition can create pressure in closed storage vessels.
<b>Incompatible materials:</b>	Strong oxidizing agents, isocyanates, ketones
<b>Hazardous decomposition products:</b>	Include but are not limited to carbon dioxide, silicon 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**

No relevant data found.

##### **Acute dermal toxicity**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

The dermal LD50 has not been determined.

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### **Acute inhalation toxicity**

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Vapor from heated material or mist may cause respiratory irritation. For narcotic effects: No relevant data found.

The LC50 has not been determined.

### **Skin corrosion/irritation**

Prolonged exposure not likely to cause significant skin irritation.

### **Serious eye damage/eye irritation**

May cause slight temporary eye irritation. May also produce an oil film over the eye-ball causing a short lasting (but harmless) dimness in sight.

### **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**

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### Acute toxicity to fish

No data available

### Persistence and degradability

**Biodegradability:** Not established

### Bioaccumulative potential

**Bioaccumulation:** Not established

### 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:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is not hazardous under OSHA.

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

**CERCLA Hazardous Substance List, 40 CFR 302.4:**

## US-228S Surfactant

No components listed

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories:

Immediate Hazard - No

Delayed Hazard - No

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:** None listed

**SARA Section 313 (Specific toxic chemical listings):** None listed

#### 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.

**US NJ Work and Community Right-to-Know Act:** Polyalkylene Oxide, Siloxane Polyalkylene Copolymer, Polydimethylsiloxane

#### SECTION 16: OTHER INFORMATION

Revision Date: May 13, 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.