


Section 1. Product and Company Identification

**Product Name** Sodium C14-16 Olefin Sulfonate  
**CAS Number** 68439-57-6

**Parchem - fine & specialty chemicals**

**415 Huguenot Street**

**New Rochelle, NY 10801**

 **(914) 654-6800**  **(914) 654-6899**

 **parchem.com**

 **info@parchem.com**

EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Physical Hazards:** Not classified.

**Health Hazards**

Acute toxicity, oral - Category 4

Skin corrosion/irritation - Category 2

Serious eye damage/eye irritation - Category 1

**Environmental Hazards**

Hazardous to the aquatic environment, acute hazard - Category 2

Hazardous to the aquatic environment, long-term hazard - Category 3

**OSHA-defined hazards:** Combustible dust

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statement**

Harmful if swallowed. Causes serious eye damage. Causes skin irritation. Toxic to aquatic life.

Harmful to aquatic life with long lasting effects. May form combustible dust concentrations in air.



**Precautionary statement**

**Prevention**

Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Wear eye/face protection. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Prevent dust accumulation to minimize explosion hazard.

**Response**

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage**

Store away from incompatible materials

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC):** None known

**Supplemental information:** None

Section 3. Composition / Information on Ingredients

**Common Name** Sodium C14-16 Olefin Sulfonate  
**CAS Number** 68439-57-6

COMPONENT	CAS NUMBER	CONCENTRATION
Sodium (C14-16) olefin sulfonate	68439-57-6	80 – 90%
Sodium xylene sulfonate (SXS)	1300-72-7	5 – 10%
Other components below reportable levels		5 – 10%

Section 4. First Aid Measures

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin Contact:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Eye Contact:** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed:** Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.



**General Information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5. Firefighting Measures

**Suitable Extinguishing Media:** Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Apply extinguishing media carefully to avoid creating airborne dust.

**Unsuitable Extinguishing Media:** None known.

**Specific Hazards arising from the chemical:** Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Class II Dust for National Electric Code (NFPA 70) During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/instructions:** In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.

**Specific methods:** Cool containers exposed to flames with water until well after the fire is out.

**General fire hazards:** May form combustible dust concentrations in air.

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up:** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools.

**Small Spills:** Stop the flow of material, if this is without risk. Collect spillage. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

**Large Spills:** Wet down with water and dike for later disposal. Prevent product from entering drains. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions:** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.



Section 7. Handling and Storage

**Precautions for safe handling:** Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should

be conducted in accordance with 'best practices' (e.g. NFPA-654). Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities:** Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Section 8. Exposure Controls / Personal Protection

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

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

**Skin protection**

**Hand protection:** Wear appropriate chemical resistant gloves.

**Other:** Wear appropriate chemical resistant clothing.



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

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Section 9. Physical and Chemical Properties

##### Appearance

**Physical state:** Solid

**Form:** Free flowing beads. Powder. Class II Dust for National Electric Code (NFPA 70)

**Color:** Off-white to light yellow.

**Odor:** Not available.

**Odor threshold:** Not available.

**pH:** 8 - 10 (5% in water)

**Melting point/freezing point:** Not available.

**Initial boiling point and boiling range:** Not available.

**Flash point:** > 201.0°F (> 93.9°C) Pensky-Martens Closed Cup

**Evaporation rate:** Not available.

**Flammability (solid, gas):** Not available.

##### 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:** Not available

**Vapor density:** Not available

**Relative density:** Not available

**Solubility (water):** Not available

**Auto-ignition temperature:** 752°F (400°C)

**Decomposition temperature:** Not available

**Viscosity:** Not available

##### Other Information

**Density:** 0.40 - 0.50 g/cm<sup>3</sup>

##### Dust explosion properties

**Pmax:** 7.3 bar

**Kat:** 132 bar m/s

**Limiting oxygen concentration (LOC):** 13.2% v/v

**Minimum explosible concentration (MEC):** Not available

**Minimum Ignition energy (MIE) - dust cloud:** < 1000 mJ



**Particle size:** 60 $\mu$ m (69% < 75  $\mu$ m)

Section 10. Stability and Reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.

**Conditions to avoid:** Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Minimize dust generation and accumulation.

**Incompatible materials:** Strong oxidizing agents

**Hazardous decomposition products:** No hazardous decomposition products are known.

Section 11. Toxicological Information

**Information on likely routes of exposure**

**Inhalation:** No adverse effects due to inhalation are expected.

**Skin contact:** Causes skin irritation

**Eye contact:** Causes serious eye damage.

**Ingestion:** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics:**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin Irritation. May cause redness and pam.

**Information on toxicological effects**

**Acute toxicity:** Harmful if swallowed.

**Dermal LD50 - Rabbit:** > 2000mg/kg

**Oral LD50 - Rat:** 642 mg/kg

**Skin corrosion/irritation:** causes skin irritation

**Serious eye damage/eye irritation:** Causes serious eye damage

**Respiratory or skin sensitization**

**Respiratory sensitization:** Not available

**Skin sensitization:** This product is not expected to cause skin sensitization

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA



**IARC Monographs, Overall Evaluation of Carcinogenicity:** Not listed  
**US National Toxicology Program (NTP) Report of Carcinogens:** Not listed  
**US, OSHA, Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not regulated

**Reproductive Toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure:** Not applicable

**Specific Target organ toxicity - repeated exposure:** Not applicable

**Aspiration Hazard:** Not applicable

#### Section 12. Ecological Information

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

##### Acute Aquatic Toxicity

**Algae EC50 - Algae:** 42.3 mg/L (72 hours)

**Crustacea EC50 - Crustacea:** 4.48 mg/L (48 hours)

**Fish EC50 - Fish:** 2.6 mg/L (96 hours)

##### Sodium (C14-16) olefin sulfonate (CAS 68439-57-6)

**Crustacea EC50 - Water Flea (Ceriodaphnia dubia):** 4.14 - 4.95 mg/L (48 hours)

**Persistence and degradability:** Readily biodegradable

**Bioaccumulative potential:** Not available

**Mobility in Soil:** Not available

**Other adverse effects:** Not available

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**DOT:** Not regulated as dangerous goods.

**IATA:** Not regulated as dangerous goods.

**IMDG:** Not regulated as dangerous goods.

**Transport In bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

#### Section 15. Regulatory Information

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.  
**SARA 304 Emergency release notification:** Not regulated.  
**US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not regulated.

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

**Hazard categories**

**Immediate Hazard:** Yes

**Delayed Hazard:** No

**Fire Hazard:** Yes

**Pressure Hazard:** No

**Reactivity Hazard:** No

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous chemical:** Yes

**SARA 313 (TRI reporting):** Not regulated.

**Other Federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
Not regulated.

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130):** Hazardous substance

**Safe Drinking Water Act (SDWA):** Not regulated.

**US State Regulations**

**US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100):** Not listed.

**US Massachusetts RTK - Substance List:** Not regulated.

**US Pennsylvania Worker and Community Right-to-Know Law:** Not listed.

**US Rhode Island RTK:** Not regulated.

**International Inventories**

Country(s) or region	Inventory name	On inventory
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes





Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 3/7/2017

