

Section 1. Product and Company Identification

**Product Name** Octadecyl Isocyanate  
**CAS Number** 112-96-9

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
☎ (914) 654-6800 ☎ (914) 654-6899  
🌐 [parchem.com](http://parchem.com) ✉ [info@parchem.com](mailto: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**

Physicochemical Hazards: Flammable liquids, Not Classified  
Health Hazards: Acute toxicity - oral, Category 3  
Skin Corrosion/Irritation, Category 2  
Serious Eye Damage/Irritation, Category 2  
STOT - Single Exposure, Category 3 (respiratory tract Irritation)  
Environmental Hazards: No information available

**GHS Label Elements**

**Pictograms:**



**Signal word:** Danger

**GHS Label Elements**

**Hazard Statements**

(H301) Toxic if swallowed  
(H315) Causes skin irritation  
(H319) Causes serious eye irritation  
(H336) May cause respiratory irritation

**Precautionary Statements**

**Prevention:** (P270) Do not eat, drink or smoke when using this product.  
(P264) Wash hands thoroughly after handling.  
(P261) Avoid breathing mist, vapors and spray.  
(P280) Wear protective gloves, eye protection and face protection.  
(P271) Use only outdoors or in a well-ventilated area.



**Response:** (P31 0) If on skin, if in eyes, if swallowed, and if inhaled, immediately call a doctor.  
(P330) If swallowed, rinse mouth.  
(P305+P351+P33B) If In eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
(P332+P313) If on skin and if skin irritation occurs, seek medical advice and attention.  
(P302+P352) If on skin, wash with plenty of soap and water.  
(P362) If on skin, take off contaminated clothing.  
(P304+P340) If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.  
**Storage:** (P405) Store locked up.  
(P403+P233) Store in a well-ventilated place. Keep container tightly closed.  
**Disposal:** (P501) Commission a waste disposal contractor licensed by the local government to dispose of contents or container.

**HMIS Classification**

**Health Hazard:** 2  
**Chronic Health Hazard:** \*  
**Flammability:** 1  
**Physical Hazards:** 0

**NFPA Rating**

**Health Hazard:** 2  
**Fire:** 1  
**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin:** Harmful if absorbed through skin. Causes skin irritation.  
**Eyes:** Causes eye irritation.  
**Ingestion:** Harmful if swallowed.

Section 3. Composition / Information on Ingredients

**Common Name** Octadecyl Isocyanate  
**Formula**  $C_{19}H_{37}NO$   
**CAS Number** 112-96-9

COMPONENT	CAS NUMBER	CONCENTRATION
Octadecyl Isocyanate	112-96-9	≥ 97%



#### Section 4. First Aid Measures

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If Inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If Swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Section 5. Firefighting Measures

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous Combustion Products:** Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NO<sub>x</sub>)

#### Section 6. Accidental Release Measures

**Personal Precautions:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions:** Do not let product enter drains.

**Methods and Materials for Containment and Cleaning Up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### Section 7. Handling and Storage

**Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

**Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8°C. Handle under inert gas. Protect from moisture. Moisture sensitive.

Section 8. Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

**Personal Protective Equipment**

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full Contact**

**Material:** Nitrile rubber

**Minimum Layer Thickness:** 0.4 mm

**Break Through Time:** 480 min

**Material Tested:** Camatril (KCL 730 / Aldrich Z677442, Size M)

**Splash Contact**

**Material:** Nitrile rubber

**Minimum Layer Thickness:** 0.2 mm

**Break Through Time:** 60 min

**Material Tested:** Dermatril P (KCL 743 / Aldrich Z677388, Size M)

Data Source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Eye Protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and Body Protection:** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



Section 9. Physical and Chemical Properties

**Appearance**

**Form:** Liquid

**Color:** No data available

**Safety Data**

**pH:** No data available

**Melting Point/Range:** 15 - 16°C (59 - 61°F) - lit.

**Boiling Point:** 172 - 173°C (342 - 343°F) at 7 hPa (5 mm Hg) - lit.

**Flash Point:** 149°C (300°F) - closed cup

**Ignition Temperature:** No data available

**Auto-Ignition Temperature:** No data available

**Lower Explosion Limit:** No data available

**Upper Explosion Limit:** No data available

**Vapor Pressure:** 1 hPa (1 mmHg) at 154 °C (309 °F)

**Density:** 0.847 g/cm<sup>3</sup> at 25 °C (77 °F)

**Water Solubility:** No data available

**Partition Coefficient: n-Octanol/Water:** No data available

**Relative Vapor Density:** No data available

**Odor:** No data available

**Odor Threshold:** No data available

**Evaporation Rate:** No data available

Section 10. Stability and Reactivity

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available

**Conditions to Avoid:** No data available

**Materials to Avoid:** Oxidizing agents

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NO<sub>x</sub>)

**Other Decomposition Products:** No data available

Section 11. Toxicological Information

**Acute Toxicity**

**Oral LD50:** No data available

**Inhalation LC50:** No data available

**Dermal LD50:** No data available

**Other Information on Acute Toxicity:** LD50 Intravenous - mouse - 100 mg/kg

**Skin Corrosion/Irritation:** No data available

**Serious Eye Damage/Eye Irritation:** No data available



**Respiratory or Skin Sensitization:** May cause sensitization by inhalation.

**Germ Cell Mutagenicity:** No data available

**Carcinogenicity**

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

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No data available

**Teratogenicity:** No data available

**Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):**

Inhalation - May cause respiratory irritation.

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):**

No data available

**Aspiration Hazard:** No data available

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** Harmful if swallowed.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic Effects:** No data available

**Additional Information:** RTECS: NR0140000

Section 12. Ecological Information

**Toxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**PBT and vPvB Assessment:** No data available

**Other Adverse Effects:** No data 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 (US)**

**UN Number:** 2206

**Class:** 6.1

**Packing Group:** III

**Proper Shipping Name:** Isocyanates, toxic, n.o.s. (Octadecyl isocyanate)

**Marine Pollutant:** No

**Poison Inhalation Hazard:** No

**IMDG**

**UN Number:** 2206

**Class:** 6.1

**Packing Group:** III

**EmS-No:** F-A, S-A

**Proper Shipping Name:** ISOCYANATES, TOXIC, N.O.S. (Octadecyl isocyanate)

**Marine Pollutant:** No

**IATA**

**UN Number:** 2206

**Class:** 6.1

**Packing Group:** III

**Proper Shipping Name:** Isocyanates, toxic, n.o.s. (Octadecyl isocyanate)

Section 15. Regulatory Information

**OSHA Hazards:** Harmful by ingestion. Harmful by skin absorption. Respiratory sensitizer. Irritant.

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** 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.

**SARA 311/312 Hazards:** Acute Health Hazard

**TSCA:** Listed

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components:** Octadecyl isocyanate, CAS-No. 112-96-9

**New Jersey Right to Know Components:** Octadecyl isocyanate, CAS-No. 112-96-9



**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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.

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