

1 - Product and Company Information

ProductName OCTADECYLSILANE, 97%, MIXTURE OF ISOMERS

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Irritating to eyes, respiratory system and skin.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
OCTADECYLSILANE	18623-11-5	242-453-9	None

Formula C18H40Si

Molecular Weight 284.61 AMU

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

CONDITIONS OF FLAMMABILITY

Material readily reacts with acids generating flammable and/or explosive hydrogen gas.

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Store in a cool dry place.

Incompatible Materials: Avoid contact with acid.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance	Color: White	Form: Solidified mass or fragments
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Property	Value	At Temperature or Pressure
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pH	N/A	
BP/BP Range	195 °C	15 mmHg
MP/MP Range	29 °C	

Flash Point	110 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	

Oxidizing Properties	N/A	
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Explosive Properties	N/A	
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Explosion Limits	N/A	
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Vapor Pressure	N/A	
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SG/Density	0.795 g/cm3	
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Partition Coefficient	N/A	
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Viscosity	N/A	
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Vapor Density	N/A	
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Saturated Vapor Conc.	N/A	
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Evaporation Rate	N/A	
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Bulk Density	N/A	
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Decomposition Temp.	N/A	
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Solvent Content	N/A	
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Water Content	N/A	
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Surface Tension	N/A	
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Conductivity	N/A	
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Miscellaneous Data	N/A	
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Solubility	N/A	
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10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents, Acids, Bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Silicon oxide, Hydrogen gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.

Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

CLASSIFICATION OF DANGER: Xi

R-Irritants: 36/37/38

S-Irritants: eyes, respiratory system and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

16 - Other Information

GERMANY

WGK: 1

ID-Number: 566

IBW/S-Decision:

UNITED STATES

California Prop 65

Not listed

CHINA

SDS

Not available

EUROPE

SDS

Not available

INDIA

SDS

Not available

THAILAND

SDS

Not available

TAIWAN

SDS

Not available

INDONESIA

SDS

Not available

PHILIPPINES

SDS

Not available

PERU

SDS

Not available

U.S. EPA

SDS

Not available

U.S. EPA TSCA

SDS

Not available

U.S. EPA EPCRA

SDS

Not available

U.S. EPA RQ

SDS

Not available

U.S. EPA TSCA

SDS

Not available