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SAFETY DATA SHEET

Section 1. Identification

Product Name: Hexachlorodisiloxane
Product Type: Liquid
CAS Number: 14986-21-1
Product Number: [SI6211](#)
Product Manufacturer: Ereztech LLC
11555 Medlock Bridge Road, Suite 100
Johns Creek, GA 30097
Product Information: (888) 658-1221
In case of an emergency: CHEMTREC: 1-800-424-9300 (USA);
+1 703-527-3887 (International); CCN836180
*** Contact manufacturer for all non-emergency calls.

Section 2. Hazards Identification

Appearance/Odor: Straw colored liquid; acrid, hydrogen chloride odor.
Hazards Identification
Classification: SKIN CORROSION/IRRITATION - Category 1B, H314
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1, H318
SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE;
Respiratory Irritation - Category 3, H335
GHS label elements
Hazard pictograms:



Signal word: DANGER
Hazard statements: H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

Hexachlorodisiloxane

Safety Data Sheet

Section 2. Hazards Identification

Precautionary statements

Prevention:

P260: Avoid breathing sprays, gases, vapors or mists.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.

Storage:

P363: Wash contaminated clothing before reuse.
P403 + P233: Store in a well ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste disposal plant.

OSHA/HCS status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified:

Hydrogen chloride may be formed by reaction with water and moisture in air.

Section 3. Composition/Information on Ingredients

Substances

Formula : Cl_6OSi_2
Molecular weight : 284.89 g/mol
CAS-No. : 14986-21-1

Ingredient Name	%	CAS Number
Hexachlorodisiloxane	>98	14986-21-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Hexachlorodisiloxane

Safety Data Sheet

Section 4. First Aid Measures

Description of Necessary First Aid Measures

- General Advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
- Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue rinsing. Call a POISON CENTER or doctor/physician immediately.
- Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off contaminated skin with soap and plenty of water. Call a POISON CENTER or doctor/physician immediately.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a POISON CENTER or doctor/physician immediately.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Remove dentures if any. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a physician or POISON CONTROL CENTER immediately.

Most Important Symptoms/Effects, Acute And Delayed Potential Acute Health Effects

- Eye Contact:** Product reacts with water and moisture in the air to release hydrogen chloride, the principal reaction product which may be expected to cause acute injury to any exposed body tissues. Direct contact with product may be expected to produce severe chemical burns to the eye tissues which may result in permanent eye damage and vision loss. Vapors and mists may be expected to be extremely irritating to the eyes. Symptoms may include heavy tearing, sensitivity to light, pain, burns and temporary/permanent loss of vision.
- Inhalation:** Inhalation of product may be expected to cause chemical burns of mucous membranes of the upper respiratory tract. Symptoms may include coughing, choking, dizziness, headaches, nausea and shortness of breath. Inhalation of a large quantity of liquid vapors or mists may be extremely hazardous and may result in death.
- Skin Contact:** Skin contact with this product may be expected to cause chemical burns of exposed tissues. Symptoms may include redness, pain, swelling and tissue necrosis.

Hexachlorodisiloxane

Safety Data Sheet

Section 4. First Aid Measures

Ingestion: Ingestion of product can produce burns of the mouth, throat, esophagus and digestive tract potentially resulting in perforated viscus with subsequent chemical pleuritic, mediastinitis, peritonitis and death. Initial symptoms may include nausea, pain, and vomiting.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician: Treat symptomatically. Airway problems may arise from laryngeal edema and inhalation exposure. Depending on degree of exposure, periodic medical examination is indicated. The symptoms of lung edema often do not manifest until a few hours have passed and are aggravated by physical effort.

Specific Treatments: No specific treatment.

Protection of First Responders: No action taken shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: THE MOST EFFECTIVE FIRE EXTINGUISHING AGENT IS DRY CHEMICAL POWDER PRESSURIZED WITH NITROGEN. Vermiculite, sand, dry chemical or carbon dioxide (CO₂) may also be used.

Unsuitable Extinguishing Media: Do not use water (fog, spray or jet) as product will react to release hydrogen chloride.

Fire and Explosion Hazards: This material reacts with water and moisture in the air to release hydrogen chloride and in some instances, hydrogen gas. Product reacts with mild steel, galvanized steel/zinc to release hydrogen gas which may form an explosive mixture with air.

Product of Combustion: Products released under fire conditions include hydrogen chloride, organic acid vapors and silicon oxides.

Protection of Firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

Hexachlorodisiloxane

Safety Data Sheet

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid inhalation of sprays, gases, vapors or mists. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

For Emergency Responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental Precautions:

Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for Containment

Small/Large Spill:

Contain and collect spillage with an inert, dry absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in dry container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Do not flush spill area with water or aqueous cleaning solution.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions:

Handle under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Keep away from water and moist air. Avoid contact with skin, eyes and clothing. Avoid inhalation of sprays, vapors, gases or mist. Do not ingest. Provide adequate ventilation.

Protective Measures:

Put on appropriate personal protective equipment (see Section 8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Hexachlorodisiloxane

Safety Data Sheet

Section 7. Handling and Storage

General Occupational Hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Safe Storage Conditions:

Store under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Keep away from water and moist air. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials noted above and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

Occupational Exposure Limits:

Product contains no substances with occupational exposure limit values.

Engineering Controls:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Provide an eyewash/shower station.

Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures**Hygiene Measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale sprays, vapors, gases or mists.

Hexachlorodisiloxane

Safety Data Sheet

Section 8. Exposure Controls/Personal Protection

Hygiene Measures (cont.):

Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant 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. For full contact, use Neoprene or nitrile rubber.

Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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.

Hexachlorodisiloxane

Safety Data Sheet

Section 8. Exposure Controls/Personal Protection

Respiratory Protection (cont.): Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State: Liquid.
Color: Straw colored.
Odor: Acrid, hydrogen chloride like.
Odor Threshold: No data available.
pH: No data available.
Freezing Point: <0 °C (<32 °F).
Boiling Point: 137 °C (278.6 °F).
Flash Point: No data available.
Auto-ignition temperature: No data available.
Specific Gravity: 1.575.
Vapor Pressure: 1.5 mm Hg @ 0 °C.
Relative Vapor Density: >5 @ 20 °C.
Water Solubility: Reacts, hydrolyzes.
Evaporation Rate: No data available.
Viscosity: No data available.

Section 10. Stability and Reactivity

Reactivity: This product reacts with moisture in the air, water and compounds containing active hydrogen such as alcohols and acids.

Chemical Stability: This product is stable when stored under a dry, inert atmosphere and away from heat. Nitrogen containing less than 5 ppm each moisture and air is recommended.

Conditions to Avoid: Keep away from water and moist air.

Incompatible Materials: Water, organic/inorganic acids, ammonia, compounds containing active hydrogen such as alcohols and acids. Product reacts with mild steel, galvanized steel/zinc to produce hydrogen gas which may form an explosive mixture with air.

Hexachlorodisiloxane

Safety Data Sheet

Section 10. Stability and Reactivity

Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: hydrogen chloride, organic acid vapors and silicon oxides. In the event of a fire: see section 5.
Possibility of Hazardous Reactions:	Under normal conditions of storage and use noted above, hazardous reactions will not occur.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity	: No specific data available.
Irritation/Corrosion	: No specific data available. May be expected to cause chemical burns to the skin, eyes and exposed mucous membranes.
Sensitization	: No specific data available.
Germ Cell Mutagenicity	: No effects known.
Carcinogenicity	
IARC	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
Reproductive Toxicity	: This product is not expected to cause reproductive or developmental effects.
Teratogenicity	: No specific data available.
Specific Target Organ Toxicity (single exposure)	: Respiratory tract irritation/damage through chemical burns.
Specific Target Organ Toxicity (repeated exposure)	: No specific data available.
Aspiration Hazard	: No specific data available.
Information on the likely routes of exposure	: No specific data available.

Hexachlorodisiloxane

Safety Data Sheet

Section 11. Toxicological Information

Additional Information

: To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated. Product has not been classified as harmful or toxic if ingested or inhaled due to the absence of relevant animal/human test data.

Section 12. Ecological Information

Numerical Measures of Toxicity

Toxicity to Fish

: No specific data available.

Toxicity to daphnia and other aquatic invertebrates

: No specific data available.

Toxicity to algae

: No specific data available.

Persistence and Degradability

Biodegradability

: No specific data available.

Bioaccumulative potential

: No specific data available.

Mobility in soil

: No specific data available.

Other Adverse Effects

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods

Product

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

Contaminated packaging

Empty containers retain product residue (liquids, vapors and gases) and can be dangerous.

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN 2987	UN 2987	UN 2987
UN Proper Shipping Name	Chlorosilanes, corrosive, n.o.s. (Hexachlorodisiloxane)	CHLOROSILANES, CORROSIVE, N.O.S. (HEXACHLORODISILOXANE)	Chlorosilanes, corrosive, n.o.s. (Hexachlorodisiloxane)
Transport Hazard Classes	8	8	8

Hexachlorodisiloxane

Safety Data Sheet

Section 14. Transport Information

	DOT	IMDG	IATA
Packing Group	II	II	II
Environmental Hazards	-	-	-
Additional Information	-	EMS-No: F-G, S-B	-

Special Precautions for User : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

Section 15. Regulatory Information

TSCA (Toxic Substance Control Act):

This product is listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory).

SARA 302 Components

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

SARA 313 Components

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 (Skin corrosion or irritation; serious eye damage or eye irritation; specific target organ toxicity, single exposure: respiratory irritation).

Massachusetts Right to Know Components

No components are subject to Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

No components are subject to Pennsylvania Right to Know Act.

New Jersey Right to Know Components

No components are subject to New Jersey Right to Know Act.

California Proposition 65 Components

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

Hexachlorodisiloxane

Safety Data Sheet

Section 16. Other Information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

HMIS Rating

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

History

Date of printing	: 1/14/2020
Date of issue/Date of Revision	: 1/14/2020
Date of previous issue	: None.
References	: None available.

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.
ATE: Acute Toxicity Estimate
CAS: Chemical Abstracts Service (division of the American Chemical Society).
DOT: US Department of Transportation.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS: Hazardous Materials Identification System.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

Hexachlorodisiloxane

Safety Data Sheet

Section 16. Other Information

Abbreviations and Acronyms (cont.)

IDLH: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).

IMDG: International Maritime Code for Dangerous Goods.

NFPA: National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits.

REL: Recommended Exposure Limits.

SARA: Superfund Amendments and Reauthorization Act.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limit Values (ACGIH).

TWA: Time Weighted Average.

VOC: Volatile Organic Compound.

Disclaimer

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

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.

BRIDGING CHEMICAL GAPS