

EREZTECH LLC

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SAFETY DATA SHEET

Section 1. Identification

Product Name: Diethyltin dichloride

Product Type: Solid
CAS Number: 866-55-7
Product Number: SN6557

Product Manufacturer: Ereztech LLC

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

Product Information: (888) 658-1221

<u>In case of an emergency:</u> (888) 658-1221 (for spill, leak, fire or exposure)

*** Contact manufacturer for all non-emergency calls.

Section 2. Hazards Identification

Emergency Overview

Appearance/Odor: White solid.

Classification: ACUTE TOXICITY; ORAL - Category 4, H302

ACUTE TOXICITY; DERMAL – Category 3, H311 SKIN CORROSION/IRRITATION - Category 1C, H314

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1, H318

ACUTE TOXICITY; INHALATION – Category 3, H331 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY TRACT IRRITATION – Category 3, H335 SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE

Category 1, H372

GHS label elements

Signal word: DANGER

Hazard statements: H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H372: Causes damage to organs (nervous system, immune

system, liver) through prolonged or repeated exposure.

Section 2. Hazards Identification

Hazard pictograms:



Precautionary statements

Prevention: P260: Do not breathe dust/fumes/gases/mists/vapors/sprays.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response: P301 + P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353: IF ON SKIN (or hair): Remove/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.

P311: Call a POISON CENTER or doctor/physician. P314: Get medical advice/attention if you feel unwell.

P330: Rinse mouth.

P361 + P363: Take off immediately all contaminated clothing.

Wash before reuse.

Storage: 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 wasted

disposal plant.

General: None.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Hazards not otherwise None known.

classified:

Section 3. Composition/Information on Ingredients

Substances

Synonyms : Dichlorodiethylstannane; Dichlorodiethyltin;

Diethyldichlorostannane; Diethyldichlorotin; Diethylstannium

dichloride; Diethylstannyl dichloride;

Formula : $C_4H_{10}Cl_2Sn$ Molecular weight : 247.74 g/mol CAS-No. : 866-55-7

Ingredient Name	%	CAS Number
Diethyltin dichloride	>98	866-55-7

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.

Section 4. First Aid Measures

Description of Necessary First Aid Measures

General Advice: Move out of dangerous area. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not get in eyes, on skin, or on clothing. Call a POISON CENTER or doctor/physician immediately. 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. Get

immediate medical attention.

Skin Contact: Immediately remove shoes and all contaminated clothing. 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. Call a POISON CENTER or doctor/physician immediately. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Use a barrier 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.

Ingestion: Call a physician or POISON CONTROL CENTER immediately. 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.

Section 4. First Aid Measures

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

Eye Contact: Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Product exerts a strong caustic effect on eye tissues which will result in severe

irritation and possibly permanent damage.

Inhalation: Poisoning by the product may initially be asymptomatic. Symptoms which may

develop after an initial latency period may include nasal irritation, severe headaches, respiratory irritation, visual disturbances including photophobia and physic disturbances. Product is toxic if inhaled and may result in permanent injury and possibly death. Prolonged or repeat exposure may result in damage to the liver (tissue necrosis), Central Nervous System (CNS) and the immune

system. Damage may be permanent.

Skin Contact: Product is toxic in contact with skin. Organotins may be absorbed through the

skin. Prolonged contact with skin may result in necrosis, edema and/or inflammation of the exposed tissues. Absorbed product may be expected to

produce the same effects as inhaled product.

Ingestion: Ingested product may be expected to have a purgative effect upon the digestive

system which may result in diarrhea and vomiting. Some product may be expected to be absorbed through the digestive system which may result in symptoms similar to those seen in inhaled product. Prolonged exposure of the

digestive tract to the product may produce tissue necrosis and possibly

perforation of the intestinal wall.

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

Notes to Physician: Poisoning by the product may initially be asymptomatic.

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

General Hazards: Fire may produce irritating, corrosive and/or toxic gases.

Suitable Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or

carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use water stream.

Unusual Fire and Explosion

Hazards:

If involved in a fire, irritating fumes and organic acid vapors

may develop when product is exposed to elevated

temperatures or flames.

Section 5. Fire Fighting Measures

Product of Combustion: Decomposition products may include tin oxides and organic

acid vapors.

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. Avoid

contact with skin and eyes. Do not breathe dust.

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 dusts. 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 Spill: Absorb with an inert dry binding material (sand, diatomite, acid

binders, universal binders) and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

contractor.

Large Spill: Contain and collect spillage using a 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. Note: see Section 1 for emergency contact information and Section 13 for waste

disposal.

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Section 7. Handling and Storage

Precautions: Handle under a dry inert gas. Avoid contact with skin, eyes

and clothing. Avoid the formation of aerosols and the

inhalation of dusts. 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.

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 a dry inert gas. Product is moisture and light

sensitive. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (oxidizing agents, moisture/water, direct sunlight) 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

List	Components	CAS-No.	Туре	Value
OSHA Z1	Diethyltin dichloride	866-55-7	PEL	0.1 mg/m³ (TWA) Sn
ACGIH	Diethyltin dichloride	866-55-7	TLV	0.1 mg/m³ (TWA) Sn 0.2 mg/m³ (STEL) Sn
NIOSH	Diethyltin dichloride	866-55-7	REL	0.1 mg/m³ (TWA) Sn
			IDLH*	25 mg/m ³ Sn

^{*} IDLH – Immediately Dangerous to Life or Health

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.

Section 8. Exposure Controls/Personal Protection

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 dusts or aerosols. 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, or gases. 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, wear gloves made from Neoprene or nitrile rubber.

Section 8. Exposure Controls/Personal Protection

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. 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: Solid, crystalline.

Color: White.

VOC Content:

Odor: No data available. **Odor Threshold:** No data available. No data available. pH: **Melting Point:** 84 °C (183.2 °F). 220 °C (428 °F) **Boiling Point: Flash Point:** No data available. No data available. **Auto-ignition temperature:** No data available. **Density:** No data available. **Water Solubility:**

VOCs are calculated following the requirements under 40 CFR, Part 59, Subpart C for Consumer Products and Subpart D for Architectural Coatings.

No data available.

Section 10. Stability and Reactivity

Reactivity: No additional data available.

Chemical Stability: Stable at normal ambient temperature and pressure and

under recommended storage conditions.

Conditions to Avoid: Air and moisture sensitive. Handle under an inert dry

gas. Direct sunlight causes degradation to an inorganic

tin salt.

Incompatible Materials: Air/moisture, oxidizing agents.

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Section 10. Stability and Reactivity

Hazardous Decomposition Products: Carbon oxides, tin oxides, hydrogen chloride, organic acid

vapors.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous

reactions will not occur.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Component	CAS No	Result	Species	Dose	Exposure
Diethyltin dichloride	866-55-7	LD50 Oral	Rat	509 mg/kg	1
		LD50 Intravenous	Rat	20.6 mg/kg	-
		LD50 Intraperitoneal	Rat	20.6 mg/kg	-
		LD50 Oral	Mouse	214 mg/kg	-
		LD50 Intraperitoneal	Mouse	19 mg/m ³	-

Irritation/Corrosion

: No specific data available. Caustic effect on skin, mucous membranes and eye tissues. Prolonged exposure may result in tissue necrosis, edema and inflammation.

Sensitization

Germ Cell Mutagenicity

Carcinogenity

IARC

: No specific data available.

: No effects known.

ACGIH

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

: 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.

Section 11. Toxicological Information

Specific Target Organ Toxicity

(single exposure)

Specific Target Organ Toxicity

(repeated exposure)

Aspiration Hazard

Information on the likely routes of exposure

Additional Information

: No specific data available.

: None

Section 12. Ecological Information

Numerical Measures of Toxicity

Component	CAS No	Test	Species	Dose	Exposure
Diethyltin dichloride	866-55-7	LC50	Biomphalaria glabrata (Snail)	50-100 mg/l	24 h
		LC50	Rhithropanopeus harrisii (crab zoea)	3.613 mg/l	14 d

Persistence and Degradability

Biodegradability

Bioaccumulative potential

Mobility in soil

Other Adverse Effects

: No specific data available.

: No specific data available.

: No specific data available.

: This substance may be hazardous to the environment. 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 (liquid and/or vapor)

and can be dangerous. Dispose of in the same manner as

unused product.

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN 3146	UN 3146	UN 3146
UN Proper Shipping Name	ORGANOTIN ORGANOTIN		ORGANOTIN
	COMPOUND, SOLID,	COMPOUND, SOLID,	COMPOUND, SOLID,
	N.O.S. (Diethyltin	N.O.S. (Diethyltin	N.O.S. (Diethyltin
	chloride)	chloride)	chloride)
Transport Hazard Classes	6.1	6.1	6.1
Packing Group	I	I	I
Environmental Hazards	-	-	-
Additional Information	-	-	-

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 not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

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.

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.

Section 15. Regulatory Information

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

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 4 FLAMMABILITY 1 PHYSICAL HAZARD 1

History

Date of printing : 3/10/17

Date of issue/Date of Revision : 3/10/17

Date of previous issue : None

References: None available

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DOT: US Department of Transportation

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Section 16. Other Information

Abbreviations and Acronyms (cont.)

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)

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 SARA: Superfund Amendments and Reauthorization Act

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.