



SAFETY DATA SHEET

Section 1. Identification

Product Name:	Methyltin trichloride
Product Type:	Solid
CAS Number:	993-16-8
Product Number:	SN3168
Recommended Use:	Laboratory chemicals, synthesis of substances.
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>	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:	White crystalline powder, acrid odor.
Classification:	FLAMMABLE SOLIDS – Category 2, H228 ACUTE TOXICITY, ORAL - Category 4, H302 ACUTE TOXICITY, DERMAL – Category 3, H311 SKIN CORROSION/IRRITATION – Category 1B, H314 SENSITISATION, SKIN – Category 1, H317 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1, H318 ACUTE TOXICITY, INHALATION – Category 3, H330 GERM CELL MUTAGENICITY – Category 2, H341 REPRODUCTIVE TOXICITY – Category 2, H361 SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE (Nervous system, thymus) – Category 2, H373 HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE TOXICITY – Category 1, H400 HAZARDOUS TO THE AQUATIC ENVIRONMENT, CHRONIC TOXICITY – Category 1, H410

GHS Label Elements

Signal Word:	DANGER
Hazard Statements:	H228: Flammable solid. H302: Harmful if swallowed. H311: Toxic in contact with skin.

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Section 2. Hazards Identification

- Hazard Statements (cont.):**
- H314: Causes severe skin burns and eye damage.
 - H317: May cause an allergic skin reaction.
 - H318: Causes serious eye damage.
 - H330: Fatal if inhaled.
 - H341: Suspected of causing genetic defects.
 - H361: Suspected of damaging fertility or the unborn child.
 - H373: May cause damage to organs (nervous system, thymus) through prolonged or repeated exposure.
 - H400: Very toxic to aquatic life.
 - H410: Very toxic to aquatic life with long lasting effects.

Hazard Pictograms:



Precautionary Statements

- Prevention:**
- P203: Obtain, read and follow all safety instructions before use.
 - P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. – No smoking.
 - P240: Ground and bond container and receiving equipment.
 - P241: Use explosion-proof electrical/ventilating/lighting equipment.
 - P260: Do not breathe dusts/aerosols/vapors/gases.
 - P262: Do not get in eyes, on skin, or on clothing.
 - P264 + P265: Wash hands and exposed skin thoroughly after handling. Do not touch eyes.
 - P270: Do not eat, drink or smoke when using this product.
 - P271: Use only outdoors or with adequate ventilation.
 - P272: Contaminated work clothing should not be allowed out of the workplace.
 - P273: Avoid release to the environment.
 - P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
 - P284: In case of inadequate ventilation wear respiratory protection.
- Response:**
- P301 + P317: IF SWALLOWED: Get medical help.

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Section 2. Hazards Identification

Response (cont.):	P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P361 + P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P316: Get emergency medical help immediately. P330: Rinse mouth. P333 + P317: If skin irritation or rash occurs: Get medical help. P361 + P364: Take off immediately all contaminated clothing and wash it before reuse. P363: Wash contaminated clothing before reuse. P370 + P378: In case of fire: Use water spray (fog), dry sand, carbon dioxide, dry chemical or alcohol resistant foam for extinction. P391: Collect spillage.
Storage:	P403 + P233: Store in a well ventilated place. Keep container tightly closed. P405: Store locked up.
Disposal:	P501: Dispose of contents/container in accordance with federal, state and local regulations.
General:	None identified.
OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise Classified (HNOC):	None identified.

Section 3. Composition/Information on Ingredients

Substance Type	: Mono-constituent.
Synonyms	: Trichloromethylstannane; Methyltrichlorotin; Stannane, trichloromethyl-; Monomethyltin trichloride.
Formula	: CH ₃ Cl ₃ Sn
Molecular Weight	: 240.08 g/mol
EC-No.	: 213-608-8

Ingredient Name	%	CAS Number
Methyltin trichloride	≥ 97	993-16-8

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Section 3. Composition/Information on Ingredients

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. Get emergency medical help immediately. Show this safety data sheet to the doctor in attendance. If unconscious, place in recovery position and get medical help immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do. Continue rinsing. Get emergency medical help immediately.
- Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off contaminated skin with plenty of water. Get emergency medical help immediately.
- Inhalation:** Get emergency medical help immediately. Remove person to fresh air and keep 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. Do not use mouth-to-mouth method if victim ingested or inhaled the product; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Ingestion:** Get emergency medical help immediately. Rinse mouth, and then give water to drink (two glasses at most). 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.

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

- Eye Contact:** Causes serious eye damage. Symptoms may include watering, redness, pain, swelling of the eyelids, inability to keep eye open, blurred vision and temporary/permanent loss of vision.
- Inhalation:** Product is fatal if inhaled and is corrosive to mucous membranes and tissues of the upper respiratory tract. Symptoms may include a burning sensation, coughing, coughing up blood (hemoptysis), wheezing, laryngitis, shortness of breath/ difficulty in breathing (dyspnea), blueness (cyanosis) of lips and skin, nausea, headaches, disorientation, general weakness and loss of consciousness.
- Skin Contact:** Product is toxic in contact with the skin and may be expected to cause severe chemical burns. Symptoms may include reddening of skin, a burning or itching sensation, pain, blistering and tissue necrosis.

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Section 4. First Aid Measures

Ingestion: Product is harmful if ingested and may be expected to result in burns of the mouth and throat and potential perforation of the esophagus and stomach. Symptoms may include pain when swallowing (odynophagia), difficulty swallowing (dysphagia), fever, nausea, recurrent vomiting (emesis) and vomiting of blood (hematemesis). Severe burns which may be accompanied by perforation of the esophagus and stomach may present additional symptoms of abdominal pain/rigidity, chest and/or back pain.

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

Notes to Physician: Treat symptomatically.

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: Flammable solid. Fire may produce irritating, corrosive and/or toxic gases.

Suitable Extinguishing Media: Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide. For large fires, large quantities of water (flooding) may be applied as a spray or a mist to control the fire, to suppress fumes, vapors and gases and to cool affected containers to prevent explosive ruptures of containers.

Unsuitable Extinguishing Media: Do not use a water jet.

Unusual Fire and Explosion Hazards: None identified.

Product of Combustion: Decomposition products may include carbon oxides (CO_x), hydrogen chloride and tin oxides. Irritating/corrosive/toxic fumes and organic acid vapors may be generated during exposure to elevated temperatures or open flame.

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. Prevent contact with skin or eyes. Prevent the formation and inhalation of dusts and aerosols.

Eliminate all local and distant ignition sources. Move containers from fire area if process can be accomplished without risk to firefighters.

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Section 5. Fire Fighting Measures

- Protection of Firefighters (cont.):** Do not cut, grind, drill or weld on or near product containers (even empty) of this product because an explosion may result. Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.
- Additional Information:** Prevent fire extinguishing water from contaminating surface waters or ground water systems.

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. Remove all sources of ignition – NO SMOKING. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Prevent the formation and inhalation of dusts and aerosols. 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 Non-Emergency 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

- General:** Eliminate all local and distant ignition sources – NO SMOKING. Move containers from spill area if safe to do so. Prevent the formation and inhalation of dusts and aerosols. Use spark-proof tools and explosion-proof equipment. Take action to prevent static discharges. Dispose of collected spillage in accordance with federal, state and local regulations. Contaminated binding material may pose the same hazard as the spilled product.
- Small Spill:** Collect spillage with a dry, binding material (e.g. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.

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Section 6. Accidental Release Measures

Large Spill:

Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a dry, binding material (e.g. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.

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

Section 7. Handling and Storage

Precautions:

Product is moisture sensitive; handle under a dry, inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Keep away from all sources of ignition – NO SMOKING. Keep container tightly sealed. Prevent contact with skin, eyes and clothing. Prevent the formation and inhalation of dusts and aerosols. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.

Protective Measures:

Protect against electrostatic discharges. Use explosion-proof electrical/ventilating/lighting/handling equipment. Use non-sparking tools and equipment. 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. Do not allow contaminated clothing to leave the workplace. See also Section 8 for additional information on hygiene measures.

Safe Storage Conditions:

Product is moisture sensitive; store under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Store refrigerated at 2 °C to 8 °C. Keep away from all sources of ignition – NO SMOKING. Store in original container protected from direct sunlight in a dry and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

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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

Components	CAS-No.	List	Type	Value
Methyltin trichloride	993-16-8	ACGIH	TLV	0.1 mg/m ³ TWA 0.2 mg/m ³ STEL
		CA Title 8	Article 107	0.1 mg/m ³ PEL 0.2 mg/m ³ STEL
		NIOSH	REL	0.1 mg/m ³ TWA
		OSHA Z1	PEL	0.1 mg/m ³ TWA

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 allow contaminated clothing to leave the workplace. Prevent the formation and inhalation of dusts and aerosols. Prevent 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 dusts and aerosols. 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.

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Section 8. Exposure Controls/Personal Protection

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.

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. When there is a risk of ignition from static electricity, wear anti-static, flame retardant protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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.

Color:

White crystalline powder.

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Section 9. Physical and Chemical Properties

Odor:	Acrid.
Odor Threshold:	No data available.
pH:	No data available.
Melting Point:	48 – 51 °C (118 – 124 °F) - lit.
Boiling Point:	171 °C (340 °F) - lit.
Flash Point:	Not applicable.
Flammability:	Product is a Category 2 flammable solid.
Auto-ignition temperature:	No data available.
Relative Density:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	Not applicable.
Water Solubility:	Slightly soluble.

Section 10. Stability and Reactivity

Reactivity:	No additional information available.
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 and a temperature range of 2 °C to 8 °C is recommended.
Conditions to Avoid:	Exposure to water/moisture, sources of ignition (heat, flames, sparks, electrostatic discharge), extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents and strong bases.
Hazardous Decomposition Products:	Carbon oxides (CO _x), hydrogen chloride, tin oxides and organic acid vapors.
Possibility of Hazardous Reactions:	Under normal conditions of storage and use noted above, hazardous reactions will not occur. Hazardous reactions or instability may occur under certain conditions of storage or use.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

: Product is fatal if inhaled, toxic in contact with skin and harmful if swallowed.

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Section 11. Toxicological Information

Acute Toxicity (cont.)

Component	CAS No	Result	Species	Dose	Exposure
Methyltin trichloride	993-16-8	LD50 Oral	Rat	1370 mg/kg	-
		LD50 Dermal	Rabbit	200 mg/kg	-
		LC50 Inhalation	ATE (dust)	0.5 mg/l	4h

Irritation/Corrosion

: No specific data available. Product is corrosive to exposed eye and skin tissues as well as to exposed mucous membranes.

Sensitization

: No specific data available. Product may cause an allergic reaction.

Germ Cell Mutagenicity

: Product is suspected of causing germ cell mutations.

Carcinogenity

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

: Product is suspected of causing reproductive or developmental effects.

Teratogenicity

: No specific data available.

Specific Target Organ Toxicity (Single Exposure)

: No specific data available.

Specific Target Organ Toxicity (Repeated Exposure)

: Product may cause damage to thymus and nervous system through prolonged or repeated exposure.

Aspiration Hazard

: No specific data available.

Information on the Likely Routes of Exposure

: Common routes of exposure: inhalation (failure to prevent dust formation), dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking after handling product without washing hands or using hand protection)).

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Section 11. Toxicological Information

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

Section 12. Ecological Information

Numerical Measures of Toxicity

Component	CAS No	Test	Species	Dose	Exposure
Methyltin trichloride	993-16-8	LC50 Fish	Fathead Minnow	320 mg/l	96 h
		EC50	Water Flea	90 mg/l	24 h
		EC50 Growth Inhibition	Skeletonema costatum (algae)	0.078 mg/l	72 h

Persistence and Degradability

Biodegradability

: No specific data available.

Bioaccumulative Potential

: No specific data available.

Mobility in Soil

: No specific data available.

Other Adverse Effects

: Very toxic for aquatic organisms, may cause long-lasting harmful effects to aquatic life. 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 (dusts, aerosols and/or vapors) and can be dangerous. Keep product and container away from heat and all ignition sources. Dispose of in the same manner as unused product.

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Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN2921	UN2921	UN2921
UN Proper Shipping Name	Corrosive solid, flammable, n.o.s. (Methyltin trichloride)	CORROSIVE SOLID, FLAMMABLE, N.O.S. (Methyltin trichloride)	Corrosive solid, flammable, n.o.s. (Methyltin trichloride)
Transport Hazard Classes	8 (4.1)	8 (4.1)	8 (4.1)
Packing Group	II	II	II
Environmental Hazards	Yes	Yes	Yes
Additional Information	-	EMS No: F-A, S-G	-

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.

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

Fire Hazard (Flammable Solid); Acute Health Hazard ((Acute Toxicity – Ingestion, Inhalation, Dermal); Respiratory or Skin Sensitization; Skin Corrosion or Irritation; Serious Eye Damage or Eye Irritation; Specific Target Organ Toxicity, Repeated Exposure); Chronic Health Hazard (Reproductive Toxicity; Germ Cell Mutagenicity).

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.

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Section 15. Regulatory Information

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.

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	2
PHYSICAL HAZARD	2

History

Date of Issue/Date of Revision : 7/11/2024

Date of Previous Issue : 8/19/2021.

References : None available.

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.

ATE: Acute Toxicity Estimate (per Chapter 3.1 of GHS 10 standard).

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

CLP: Classification, Labeling and Packaging (European Union (EU)).

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Section 16. Other Information

Abbreviations and Acronyms

DOT: US Department of Transportation.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System.

HNOC: Hazards Not Otherwise Classified.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

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.

OECD: Organization for Economic Co-Operation and Development.

OEL: Occupational Exposure Limit.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits.

REL: Recommended Exposure Limits.

SARA: Superfund Amendments and Reauthorization Act.

STEL (ST): Short Term Exposure Limit (ACGIH/NIOSH)

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.