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SAFETY DATA SHEET

Section 1. Identification

Product Name: <u>Tetrakis(dimethylamino)silane</u>

Product Type: Liquid
CAS Number: 1624-01-7
Product Number: SI4017

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

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: Colorless to light yellow liquid, acrid/amine-like odor.

Classification: FLAMMABLE LIQUIDS - Category 3, H226

SUBSTANCE AND MIXTURES, WHICH IN CONTACT WITH WATER,

EMIT FLAMMABLE GASES - Category 2, H261
ACUTE TOXICITY, ORAL - Category 4, H302
ACUTE TOXICITY, DERMAL - Category 4, H312

SKIN CORROSION/IRRITATION - Category 1B, H314 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1, H318

ACUTE TOXICITY, INHALATION - Category 4, H332

GHS Label Elements

Hazard Pictograms:



Signal Word: DANGER

Hazard Statements: H226: Flammable liquid and vapor.

H261: In contact with water releases flammable gases.

H302: Harmful if swallowed.

Section 2. Hazards Identification

Hazard Statements (cont.): H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

Precautionary Statements

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P223: Do not allow contact with water.

P231 + P232: Handle and store contents under inert gas. Protect from moisture.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/handling equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P260: Do not breathe sprays, mists, vapors or gases.

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.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/hearing protection.

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

P302 + P335 + P334: IF ON SKIN: Brush off loose particles from skin and immerse in cool water.

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.

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. DO NOT USE WATER.

P402 + P404: Store in a dry place. Store in a closed container.

P403 + P235: Store in a well ventilated place. Keep cool.

P405: Store locked up.

Response:

Storage:

Section 2. Hazards Identification

P501: Dispose of contents/container in accordance with federal, **Disposal:**

state and local regulations.

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

Communication Standard (29 CFR 1910.1200).

Contact with water releases toxic gas (dimethylamine).

Hazards Not Otherwise

Classified (HNOC):

Section 3. Composition/Information on Ingredients

Mono-constituent. **Substance Type:**

Synonyms: Octamethylsilanetetramine; silicon dimethylamide; 4DMAS;

TDMASi; (Me2N)4Si.

Formula: $C_8H_{24}N_4Si$ **Molecular Weight:** 204.39 g/mol. 216-611-2 EC-No.:

Component Name		%	CAS Number
Tetrakis(dimethylamino)silane	/ A	≥ 99	1624-01-7

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

Move out of dangerous area. Get immediate emergency medical help. Show General Advice:

> 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.

Immediately flush eyes with plenty of water, occasionally lifting the upper and **Eye Contact:**

> lower eyelids. Rinse for a minimum of 15 minutes. Check for and remove any contact lenses after initial rinse period and continue rinsing for an additional 15

minutes. Keep eyes wide open during rinsing process. Get immediate

emergency medical help.

Remove all contaminated clothing and shoes. Wash off contaminated skin with **Skin Contact:**

plenty of water for a minimum of 15 minutes. Thoroughly clean and dry

contaminated clothing before reuse. Destroy/discard contaminated shoes. In the

event of complaints or symptoms, avoid further exposure. Get immediate

emergency medical help.

Section 4. First Aid Measures

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for

breathing. Rescuer should wear a mask or self-contained breathing apparatus if it is suspected that fumes are still present. 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. Get immediate emergency medical help.

Ingestion: Do NOT induce vomiting. Rinse mouth. 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. Get immediate

emergency medical help.

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

Eye Contact: Product causes serious eye damage. Symptoms may include watering, redness,

pain, swelling of the eyelids, inability to keep eye open, blurred vison and

temporary/permanent loss of vision.

Inhalation: Product is extremely 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: Skin contact with this product may be expected to cause (severe) chemical

burns. Symptoms may include reddening of skin, a burning or itching sensation,

pain, blistering and tissue necrosis.

Ingestion: Ingestion 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: Product reacts violently with water to release flammable/toxic

gases (dimethylamine).

Suitable Extinguishing Media: THE MOST EFFECTIVE FIRE EXTINGUISHING AGENT IS DRY

CHEMICAL POWDER PRESSURIZED WITH NITROGEN. Alcohol-resistant foam or carbon dioxide (CO₂) may also be

used. CAUTION: REIGNITION MAY OCCUR.

Unsuitable Extinguishing Media: DO NOT USE FOAM OR WATER as extinguishing agents as

product reacts violently with these agents to release

flammable/toxic gases (dimethylamine).

Unusual Fire and In case of fire, reignition of the product may occur after the Explosion Hazards: In case of fire, reignition of the product may occur after the fire has been extinguished. Vapor/air mixtures of product may

become explosive above flash point. Product runoff to sewer may create a fire or explosion hazard. Vapors/gases released

when product is exposed to moisture in air or water are heavier than air and will spread along the ground. Vapors

may accumulate in low or confined areas or travel a considerable distance to an ignition source and flashback.

Products of combustion include carbon oxides (CO_x), nitrogen oxides (NO_x) and silicon dioxide. Irritating/toxic fumes and organic acid vapors may be generated during exposure to

elevated temperatures or open flame.

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 sprays, mists, vapors and gases.

Eliminate all local and distant ignition sources. Move containers from fire area if process can be accomplished without risk to firefighters. To reduce the possibility of explosion, use a water spray or fog to reduce direct vapors and to cool unopened containers. 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.

Product of Combustion:

Protection of Firefighters:

Ereztech SI4017 Page 5 of 16 Revision: 1.00

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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Prevent the formation and inhalation of sprays, mists, gases and vapors. 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:

Spilled material may give off smoke and fumes. Eliminate all local and distant ignition sources. Move containers from spill area if safe to do so. Avoid allowing the spilled material to get wet or using water to clean up spillages or residues. Use spark-proof tools and explosion-proof equipment. Prevent the formation and inhalation of sprays, mists, vapors and gases. Dispose of collected spillage in accordance with federal, state and local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

Small Spill:

Collect spillage with a dry, non-combustible binding material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.

Large Spill:

Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a dry, non-combustible binding material (e.g. sand, earth, 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 reacts violently with water to release flammable/toxic gases; 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. Protect against electrostatic discharges. Use explosion-proof electrical/ventilating/lighting/handling equipment. Use non-sparking tools and equipment. Keep container tightly sealed. Prevent contact with skin, eyes and clothing. Prevent the formation and inhalation of sprays, mists, vapors and gases. Do not ingest or inhale. Avoid prolonged exposure. Ensure 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:

Product reacts violently with water to release flammable/toxic gases; store under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Store refrigerated at 2 – 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.

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.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Components	CAS-No.	List	Туре	Value
Dimethylamine	124-40-3	ACGIH	TLV	5 mg/m ³ TWA 15 mg/m ³ STEL Skin sensitizer
		CA Title 8	Article 107	9.2 mg/m³ (5 ppm) PEL 27.6 mg/m³ (15 ppm) STEL
		NIOSH	REL	18 mg/m³ (10 ppm) TWA 500 ppm IDLH
		OSHA Z1	PEL	18 mg/m³ (10 ppm) 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 inhale sprays, mists, vapors or gases. 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 liquid splashes or mists. 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.

Ereztech SI4017 Page 8 of 16 Revision: 1.00

Section 8. **Exposure Controls/Personal Protection**

Hand Protection (cont.):

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. When there is a risk of ignition from static electricity discharges, 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

Liquid. **Physical State:** Colorless. Color:

Acrid, amine-like. Odor: **Odor Threshold:** No data available. No data available. pH: 15 °C (59 °F) - lit. **Melting Point:**

Page 9 of 16 Ereztech SI4017 Revision: 1.00

Section 9. Physical and Chemical Properties

Boiling Point: 196 °C (384.8 °F) - lit.

Flash Point: 58 °C (136.4 °F).

Auto-ignition temperature: No data available.

Density: 0.885 g/cm³ @ 25 °C (77 °F).

Vapor Pressure:16 mm Hg @ 4 °C.Vapor Density:No data available.

Water Solubility: Reacts violently to release flammable gases.

Section 10. Stability and Reactivity

Reactivity: This product reacts violently with moisture in air, water

and compounds containing active hydrogen such as alcohols and acids to release highly flammable and toxic

gases.

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 - 8 °C is recommended.

Conditions to Avoid: Keep away from moisture, water, heat and sources of

ignition.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: dimethylamine, carbon oxides (CO_X) , nitrogen

oxides (NO_X) and silicone dioxide. Irritating and

potentially toxic fumes may be generated during exposure to elevated temperatures or open flame. 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. Hazardous reactions or instability may occur under certain conditions of storage or use. In contact with water, product reacts

violently to release toxic/flammable gases.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Component	CAS No	Result	Species	Dose	Exposure
Tetrakis(dimethylamino)silane	1624-01-7	LD50 Oral	Rat	1670 μL/kg	-

Irritation/Corrosion

: No specific data available. Product causes thermal and/or chemical burns to the skin, eyes and exposed mucous membranes.

Sensitization

: No specific data available.

Germ Cell Mutagenicity

: No specific data available.

Carcinogenicity

ACGIH

: No component of this product present at levels greater

than 0.1% is identified as probable, possible or

confirmed human carcinogen by ACGIH.

IARC

: No component of this product present at levels greater

than 0.1% is identified as probable, possible or

confirmed human carcinogen by IARC.

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

: No specific data available.

Teratogenicity

: No specific data available.

Specific Target Organ Toxicity (Single Exposure)

: Respiratory tract irritation/damage through thermal and chemical burns.

Specific Target Organ Toxicity

: No specific data available.

(Repeated Exposure)

: No specific data available.

Aspiration Hazard Information on the Likely

Routes of Exposure

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

Additional Information

: To the best of our knowledge, the chemical, physical and toxicological properties of this product have not

been thoroughly investigated.

Section 12. Ecological Information

Numerical Measures of Toxicity

Component	CAS No	Test	Species	Dose	Exposure
Dimethylamine	124-40-3	LC50	Oncorhynchus mykiss	111 - 125 mg/l	96 h
		LC50	Oncorhynchus mykiss	120 mg/l	96 h (static)
		EC50	Daphnia magna	88.7 mg/l	48 h

Persistence and Degradability

Biodegradability: No specific data available.

Bioaccumulative Potential: No specific data available.

Mobility in Soil: No specific data available.

Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted.

Endocrine Disrupting Properties: 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,

gases) and can be dangerous. Dispose of as unused product. DO NOT EXPOSE EMPTY CONTAINERS TO AIR, MOISTURE, HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE

AND CAUSE INJURY OR DEATH.

Ereztech SI4017 Page 12 of 16 Revision: 1.00

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN3129	UN3129	UN3129
UN Proper	Water-reactive liquid,	WATER-REACTIVE	Water-reactive liquid,
Shipping Name	corrosive, n.o.s.	LIQUID, CORROSIVE,	corrosive, n.o.s.
	(Tetrakis(dimethylamino)	N.O.S.	(Tetrakis(dimethylamino)
	silane)	(Tetrakis(dimethylamino)	silane)
		silane)	
Transport	4.3 (8)	4.3 (8)	4.3 (8)
Hazard Classes			
Packing Group	H	H	П
Environmental	-	-	-
Hazards			
Additional	-	EMS-No: F-G, S-N	-
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.

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

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 302 EHS TPQ.

SARA 304 Components

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 304 RQ.

SARA 311/312 Hazards

Fire Hazard (Flammable liquid), Reactivity Hazard (In contact with water emits flammable gas), Acute Health Hazard (Acute Toxicity (Oral, Dermal, Inhalation); Skin corrosion or irritation; Serious eye damage or eye irritation; Specific target organ toxicity, single exposure (Respiratory system)).

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.

Clean Water Act

Not applicable.

Clean Air Act

Not applicable.

Section 15. Regulatory Information

CERCLA Reportable Quantity

This product does not contain any chemical components with known CAS numbers with a CERCLA Reportable Quantity.

US State Right-to-Know Listings

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tetrakis(dimethylamino) silane	-	-	-	-	-

[&]quot;X" - Listed.

US State Chemicals of High Concern Listings

Component	Maine	Vermont	Washington
Tetrakis(dimethylamino)silane	-	-	-

[&]quot;X" - Listed.

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.

Ereztech SI4017 Page 14 of 16 Revision: 1.00

Section 16. Other Information

HMIS Rating

HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARD	2

History

Date of Issue/Date of Revision : 12/31/2024.

Date of Previous Issue : None.

References : None available.

Abbreviations and Acronyms

ACGIH : American Conference of Governmental Industrial Hygienists.

AIHA : American Industrial Hygiene Association.

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

BEI : Biological Exposure Indices (ACGIH).

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

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

DOT : US Department of Transportation.

EC-No. : The EC Inventory (EINECS, ELINCS and the NLP-list is the source of the seven digit

EC number, an identifier of substances commercially available with the EU (European

Union).

EINECS : European Inventory of Existing Commercial Chemical Substances.

EHS : Extremely Hazardous Substance.

ELINCS : European List of Notified Chemical Substances.

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

HAP: : Hazardous Air Pollutants (Clean Air Act).

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.

IP : Intraperitoneal. IV : Intravenous.

NFPA : National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NSRL : No Significant Risk Levels. NTP : National Toxicology Program.

ODS : Ozone Depleting Substances (US Clean Air Act).

OECD : Organization for Economic Co-Operation and Development.

OEL : Occupational Exposure Limit.

Section 16. Other Information

Abbreviations and Acronyms (cont.)

OSHA : Occupational Safety and Health Administration.

PBT : Persistent Bioaccumulative and Toxic.

PEL : Permissible Exposure Limits.
REL : Recommended Exposure Limits.

RQ : Reportable Quantity.

SARA : Superfund Amendments and Reauthorization Act.

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

STOT : Specific Target Organ Toxicity.
 TLV : Threshold Limit Values (ACGIH).
 TPQ : Threshold Planning Quantity.
 TWA : Time Weighted Average.
 VOC : Volatile Organic Compound.

vPvB : Very Persistent and Very Bioaccumulative.

WEEL : Workplace Environmental Exposure Level (AIHA).

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.

Ereztech SI4017 Page 16 of 16 Revision: 1.00