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# SAFETY DATA SHEET

## Section 1. Identification

Product Name: <u>Tetrakis(dimethylamino)titanium(IV)</u>

Product Type: Liquid
CAS Number: 3275-24-9
Product Number: TI5249

**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: Yellow to orange colored liquid, amine-like odor.

Classification: FLAMMABLE LIQUIDS - Category 2, H225

SUBSTANCE AND MIXTURES, WHICH IN CONTACT WITH WATER,

EMIT FLAMMABLE GASES - Category 1, H260 ACUTE TOXICITY, ORAL - Category 4, H302

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: H225: Highly flammable liquid and vapor.

H260: In contact with water releases flammable gases which may

ignite spontaneously.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

## Section 2. Hazards Identification

**Hazard Statements (cont.):** 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/fumes/vapors/gases.

P264 + P265: Wash hands and skin thoroughly after handling. Do not touch eyes.

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

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

P301 + P317: IF SWALLOWED: Get medical help.

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.

P330: Rinse mouth.

P370 + P378: In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide for extinction. 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.

P501: Dispose of contents/ container in accordance with local, state and federal regulations.

Response:

Storage:

Disposal:

## Section 2. Hazards Identification

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

Communication Standard (29 CFR 1910.1200).

Hazards Not Otherwise Classified [HNOC]:

Reacts violently with water.

## Section 3. Composition/Information on Ingredients

Synonyms : TDMATi; Tetrakis(dimethylamino)titanium(IV);

Methanamine, N-methyl-, titanium (4+) salt; Tetrakis (dimethylamino) titanium; (Me2N) 4Ti.

 $\begin{array}{lll} \textbf{Formula} & : & C_8H_{24}N_4Ti \\ \textbf{Molecular Weight} & : & 224.17 \text{ g/mol} \\ \end{array}$ 

Ingredient Name	%	<b>CAS Number</b>
Tetrakis(dimethylamino)titanium(IV)	≥ 99	3275-24-9

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 attention 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. 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 emergency medical

help immediately.

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

plenty of water. Use shower if available. Get emergency medical help

immediately.

**Inhalation:** 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. Get emergency medical help

immediately.

## Section 4. First Aid Measures

**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 emergency medical

help immediately.

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 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.

<u>Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary</u>

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: Highly flammable liquid and vapors. Product reacts violently

with water to release flammable gases which may ignite spontaneously. If product is heated or involved in a fire, a pressure increase will occur and the container may burst, with

the risk of a subsequent explosion. Fire may produce

irritating, corrosive and/or toxic gases.

## 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 (CO<sub>2</sub>) may

also be used.

Unsuitable Extinguishing Media: DO NOT USE WATER as product reacts violently to produce

flammable vapors which may ignite spontaneously.

Unusual Fire and This material reacts with water and compounds containing active hydrogen such as alcohols and acids. Vapor/air

mixtures are explosive above flash point. Product runoff to sewer may create a fire or explosion hazard. Vapors/gases released under fire conditions are heavier than air and may spread long distances along the ground. Vapors may

spread long distances along the ground. Vapors may

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

**Product of Combustion:** A Carbon oxides, nitrogen oxides  $(NO_x)$ , titanium 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.

Avoid contact with skin or eyes. Avoid breathing sprays,

mists, aerosols, vapors and gases.

Eliminate all local and distant ignition sources. Move containers from fire area if process can be accomplished

without risk to firefighters.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

## 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). Beware of vapors accumulating to form explosive concentrations especially in low areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid the formation and inhalation of sprays, mists, vapors and gases. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

## Section 6. Accidental Release Measures

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 will likely give off smoke and fumes. Ignition

may occur immediately. 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. Dispose of collected spillage and empty containers 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 absorbent 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 absorbent 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 produce flammable gases which may ignite spontaneously; 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. Avoid contact with skin, eyes and clothing. Avoid the formation and inhalation of sprays, mists, vapors and gases. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.

## Section 7. Handling and Storage

**Protective Measures:** Protect against electrostatic charges. Use explosion-proof

electrical/ventilating/lighting/handling equipment. Use only 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. See also Section 8 for

additional information on hygiene measures.

Safe Storage Conditions: Product reacts violently with water to produce flammable gases

which may ignite spontaneously; store under a dry, 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, 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.

## 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 sprays, vapors or mists. 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.

## 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: Liquid.

Color: Yellow to orange.

Odor: Amine-like.

Odor Threshold:

pH:

No data available.

No data available.

Freezing Point:  $< 4 \, ^{\circ}\text{C} (< 39.2 \, ^{\circ}\text{F}).$ 

**Boiling Point:** 50 °C (122 °F) @ 0.5 hPa (0.5 mmHg).

Flash Point: -30 °C (-22 °F) – closed cup.

Auto-Ignition Temperature: No data available.

Specific Gravity: 0.947 g/cm<sup>3</sup>

Vapor Pressure:No data available.Vapor Density:No data available.

Water Solubility: Reacts violently with water to produce flammable gases which

may ignite spontaneously.

Evaporation Rate: No data available. Viscosity: No data available.

## Section 10. Stability and Reactivity

Reactivity: This product reacts violently with water and compounds containing active hydrogen such as alcohols and acids to release flammable gases which may ignite spontaneously.

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## Section 10. Stability and Reactivity

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: Exposure to water/moisture, sources of ignition (heat,

flames, sparks, electrostatic discharge), extremes of

temperature and direct sunlight.

Incompatible Materials: Water, strong oxidizing agents, and compounds

containing active hydrogen such as alcohols and acids.

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

decomposition products should not be produced.
Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides and titanium

oxide fumes. 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 releases extremely flammable gases which may ignite spontaneously.

## Section 11. Toxicological Information

#### **Information on Toxicological Effects**

Acute Toxicity

Irritation/Corrosion

: Product is harmful if ingested or inhaled.

: No specific data available. Product may cause thermal and/or chemical burns to the skin, eyes and exposed

mucous membranes (inhalation/ingestion).

Sensitization

**Germ Cell Mutagenicity** 

**Carcinogenity** 

**IARC** 

: No specific data available.

: No specific data available.

: 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.

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## Section 11. Toxicological Information

#### Carcinogenity (cont.)

**OSHA** 

Reproductive Toxicity

**Teratogenicity** 

**Specific Target Organ Toxicity** 

(Single Exposure)

**Specific Target Organ Toxicity** 

(Repeated Exposure)

**Aspiration Hazard** 

Information on the Likely **Routes of Exposure** 

**Additional Information** 

- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
- : No specific data available.
- : No specific data available.
- : Respiratory tract irritation/damage through thermal and chemical burns.
- : No specific data available.
- : No specific data available.
- : 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).
- : Material is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin. Exposure may result in inflammation and edema of the larynx, inflammation and edema of the bronchi, pneumonitis, spasms and pulmonary edema. Symptoms may include a burning sensation, coughing, wheezing, laryngitis, shortness of breath, headaches and nausea.

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** 

**Toxicity to Fish** 

**Toxicity to Daphnia and Other** 

**Aquatic Invertebrates** 

**Toxicity to Algae** 

Persistence and Degradability

**Biodegradability** 

: No specific data available.

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## Section 12. Ecological Information

**Bioaccumulative Potential** 

**Mobility in Soil** 

**Other Adverse Effects** 

: No specific data available.

: No specific data available.

: May cause long lasting harmful effects to aquatic life.

Do not allow material to contaminate ground water

systems.

## 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. Dispose of as unused product. DO

NOT EXPOSE OPENED/EMPTY CONTAINERS TO MOISTURE/WATER, HEAT, FLAME, SPARKS, STATIC

ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY

EXPLODE AND CAUSE INJURY OR DEATH.

## Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN 3399	UN 3399	UN 3399
UN Proper	Organometallic	ORGANOMETALLIC	Organometallic
Shipping Name	substance, liquid, water-	SUBSTANCE, LIQUID,	substance, liquid, water-
	reactive, flammable	WATER-REACTIVE,	reactive, flammable
	(Tetrakis(dimethylamino)	FLAMMABLE	(Tetrakis(dimethylamino)
	titanium(IV)	(Tetrakis(dimethylamino)	titanium(IV)
		titanium(IV)	
Transport Hazard	4.3 (3)	4.3 (3)	4.3 (3)
Classes			
Packing Group	I	I	1
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 14. Transport Information

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

and the IBC Code

## 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 liquid); Reactivity Hazard (In contact with water emits flammable gas); Acute Health Hazard (Acute Toxicity (Inhalation, Oral); Skin corrosion or irritation; Serious eye damage or eye 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.

## Section 16. Other Information

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



## Section 16. Other Information

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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	3
PHYSICAL HAZARD	2

#### **History**

Date of issue/Date of Revision : 10/12/2023

Date of previous issue : 5/8/2020

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).

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).

## Section 16. Other Information

#### **Abbreviations and Acronyms (cont.)**

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.

