EREZTECH LLC



11555 Medlock Bridge Road, Suite 100, Johns Creek, GA 30097, USA

T: +1.888.658.1221 F: 1.678.619.2020

E: <u>info@ereztech.com</u> W: <u>https://ereztech.com</u>

SAFETY DATA SHEET

Section 1. Identification

Product Name: Pentakis(dimethylamino)tantalum(V)

Product Type: Solid

CAS Number: 19824-59-0 Product Number: TA4590

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: Light yellow to orange colored solid; acrid amine-like odor.

Classification: FLAMMABLE SOLIDS; - Category 2, H228

SUBSTANCE AND MIXTURES, WHICH IN CONTACT WITH WATER,

EMIT FLAMMABLE GASES; - Category 1, H260

SKIN CORROSION/IRRITATION; - Category 1B, H314

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1, H318

GHS Label Elements
Hazard Pictograms:



Signal Word: DANGER

Hazard Statements: H228: Flammable solid.

H260: In contact with water releases flammable gases which may

ignite spontaneously.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

Ereztech TA4590 Page 1 of 14 Revision: 1.10

Section 2. Hazards Identification

Precautionary Statements

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. –

No smoking.

P223: Keep away from any possible contact with water, because of

violent reaction and possible flash fire.

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

P240: Ground/bond container and receiving equipment.

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

equipment.

P260: Do not breathe dust.

P264: Wash skin thoroughly after handling.

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

face protection.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth, Do NOT **Response:**

induce vomitina.

P303 + P361 + P353: If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue

rinsina.

P310: Immediately call a POISON CENTER or doctor/physician.

P334 + P335: Brush off loose particles from skin. Immerse in cool

water/wrap in wet bandages.

P363: Wash contaminated clothing before reuse.

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. Storage:

P405: Store locked up.

P501: Dispose of contents/ container to an approved wasted **Disposal:**

disposal plant.

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

Communication Standard (29 CFR 1910.1200).

None identified. **Hazards Not Otherwise**

Classified (HNOC):

Section 3. Composition/Information on Ingredients

Formula : C₁₀H₃₀N₅Ta

: PDMAT; TADMA; tantalum dimethylamide. **Synonyms**

: 401.33 g/mol. **Molecular Weight** : 19824-59-0 CAS-No.

Ereztech TA4590 Page 2 of 14 Revision: 1.10

Section 3. Composition/Information on Ingredients

Ingredient Name	%	CAS Number
Pentakis(dimethylamino)tantalum(V)	≥ 99	19824-59-0

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. Call a physician or POISON CONTROL CENTER

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. Call

a physician or POISON CONTROL CENTER immediately.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off contaminated

skin with soap and plenty of water. Call a physician or POISON CONTROL

CENTER immediately.

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

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

Traintain an open anway. Loosen agric doubling sach as a collar, de, be

waistband. Call a POISON CENTER or doctor/physician immediately.

Ingestion: Rinse mouth. Do NOT induce vomiting. Remove dentures if any. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a

physician or POISON CONTROL CENTER immediately.

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

Eye Contact: 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.

Section 4. First Aid Measures

Skin Contact: Skin contact with this product may be expected to cause (severe) chemical

burns. Symptoms may include burning, itching, pain, redness, swelling and

blistering with tissue necrosis.

Ingestion: Ingestion of this product 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: In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

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)

Unusual Fire and

Explosion Hazards:

Section 5. Fire Fighting Measures

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

CHEMICAL POWDER PRESSURIZED WITH NITROGEN.

Vermiculite, sand, dry chemical or carbon dioxide (CO₂) may

also be used.

Unsuitable Extinguishing Media: DO NOT USE WATER OR FOAM as product reacts with water

to produce flammable vapors which may ignite upon contact.

This material reacts with water and compounds containing

active hydrogen such as alcohols and acids to produce flammable liquids and gases which may ignite spontaneously.

Compounds containing oxygen or organic halide may also react upon contact with this product to produce flammable liquids and gases which may also ignite spontaneously. In case of fire, reignition of the product may occur after the fire has been extinguished. Product runoff to sewer may create a fire or explosion hazard. Vapors and gases produced 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.

Section 5. Fire Fighting Measures

Product of Combustion:

Irritating fumes of dimethylamine and organic acid vapors may develop when material is exposed to water or open flame. Products of complete combustion include carbon oxides, nitrogen oxides (NO_x), tantalum 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 dusts, 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. 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.

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. Avoid the formation and inhalation of dusts, aerosols vapors and gases. 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).

Section 6. Accidental Release Measures

Methods for Containment

Spilled material will likely give off smoke and fumes. Ignition **General:**

> 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.

Contain and collect spillage with non-combustible, dry binding **Small Spill:**

> material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal according to local regulations (see Section 13). Dispose of via a licensed

waste disposal contractor.

Approach release from upwind. Prevent entry into sewers, **Large Spill:**

water courses, basements or confined areas. Contain and collect spillage with non-combustible, dry binding material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed 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.

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. Avoid contact with skin, eyes and clothing. Avoid the formation and inhalation of dusts, aerosols, vapors and gases. Do not ingest. Avoid

prolonged exposure. Ensure adequate ventilation.

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

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.

Section 7. Handling and Storage

General Occupational Hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking or 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 is moisture sensitive; store under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Store refrigerated at $2-8\,^{\circ}$ 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 noted above and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks:

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

Occupational Exposure Limits:

Product contains no substances with occupational exposure limit values.

Engineering Controls:

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

Environmental Exposure Controls:

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

<u>Individual Protection Measures</u>

Hygiene Measures:

Avoid all unnecessary exposure. Wash all exposed skin (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 dust, aerosols, vapors or gases.

Section 8. Exposure Controls/Personal Protection

Hygiene Measures (cont.): Avoid contact with eyes and skin. Ensure that eyewash

stations and safety showers are close to the workstation

location.

Eye/Face Protection: Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer

to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Skin Protection

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-

resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, use

Neoprene or nitrile rubber.

Other Skin Protection: Appropriate footwear and any additional skin protection

measures should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory Protection: Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator

cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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: Light yellow to orange.

Odor: Acrid amine.

Odor Threshold:No data available.pH:No data available.Freezing Point:100.0 °C (212 °F).Boiling Point:150.0 °C (302 °F).Flash Point:No data available.Auto-ignition temperature:No data available.

Relative Density: 1.252

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

Water Solubility: Reacts with water to produce flammable gases.

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

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

Section 10. Stability and Reactivity

Reactivity:This product reacts violently with water and compounds containing active hydrogen, such as alcohols and acids, to produce dimethylamine, a highly flammable gas. Auto

ignition may occur.

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 $2-8\,^{\circ}\text{C}$ is recommended. This product is not

sensitive to impact.

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

flames, sparks, electrostatic discharge), extremes of

temperature and direct sunlight.

Incompatible Materials: Water, compounds containing active hydrogen (alcohols,

acids) and strong oxidizing agents.

Hazardous Decomposition Products: In contact with water, product releases dimethylamine, a

highly flammable gas which may ignite spontaneously. Decomposition products formed under fire conditions: carbon oxides, nitrogen oxides and tantalum oxide fumes.

In the event of a fire: see section 5.

Ereztech TA4590 Page 9 of 14 Revision: 1.10

Section 10. Stability and Reactivity

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 flammable gases which may ignite spontaneously.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Irritation/Corrosion

Sensitization

Germ Cell Mutagenicity

Carcinogenity

IARC

ACGIH

NTP

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

- : No specific data available.
- : No specific data available. Product may cause thermal and/or chemical burns to the skin, eyes and exposed mucous membranes.
- : 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.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
- : This product is not expected to cause reproductive or developmental effects.
- : 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 (failure to prevent dust formation), dermal (failure to use skin protection), eye (failure to use safety eyewear).

Ereztech TA4590 Page 10 of 14 Revision: 1.10

Section 11. Toxicological Information

Information on the Likely

: Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking 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

Toxicity to Fish

Toxicity to Daphnia and Other Aquatic Invertebrates

Toxicity to Algae

Persistence and Degradability

Biodegradability

Bioaccumulative Potential

Mobility in Soil

Other Adverse Effects

- : No specific data available.
- : No specific data available.
- No specific data available.
- : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods

Product

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

Contaminated Packaging

: Empty containers retain product residue (liquids, vapors and gases) and can be dangerous. Dispose of as unused product. DO NOT EXPOSE SUCH CONTAINERS TO MOISTURE, HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Ereztech TA4590 Page 11 of 14 Revision: 1.10

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN 3132	UN 3132	UN 3132
UN Proper	Water-reactive solid,	WATER-REACTIVE	Water-reactive solid,
Shipping Name	flammable, n.o.s.	SOLID, FLAMMABLE,	flammable, n.o.s.
	(Pentakis(dimethylamino)	N.O.S. (Pentakis	(Pentakis(dimethylamino)
	tantalum(V))	(dimethylamino)	tantalum(V))
		tantalum(V))	
Transport Hazard	4.3 (4.1)	4.3 (4.1)	4.3 (4.1)
Classes			
Packing Group	I	I	I
Environmental	-	-	-
Hazards			
Additional	-	EMS-No: F-G, S-L	IATA Passenger: Not
Information			permitted for transport.

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

Fire Hazard (Flammable solid), Reactivity Hazard (Self-heating, In contact with water emits flammable gas), Acute Health Hazard (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.

Ereztech TA4590 Page 12 of 14 Revision: 1.10

Section 15. Regulatory Information

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.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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 Printing : 3/23/2020
Date of Issue/Date of Revision : 3/23/2020
Date of Previous Issue : 5/12/17

Section 16. Other Information

: None available References

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.

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.

OSHA: Occupational Safety and Health Administration.

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

SARA: Superfund Amendments and Reauthorization Act.

STOT: Specific Target Organ Toxicity. TLV: Threshold Limit Values (ACGIH).

TWA: Time Weighted Average. VOC: Volatile Organic Compound.

Disclaimer

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

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.