

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

T: +1.888.658.1221 F: 1.678.619.2020

E: info@ereztech.com W: https://ereztech.com

# SAFETY DATA SHEET

### Section 1. Identification

Di-tert-butylchlorophosphine **Product Name:** 

**Product Type:** Liquid

13716-10-4 **CAS Number:** 

**Product Number:** P6104

**Recommended Use:** Laboratory chemicals, synthesis of substances.

This product is being supplied under the TSCA R&D Exemption (40 **Uses Advised Against:** 

> CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless

appropriate consent is granted in writing by Ereztech LLC.

**Ereztech LLC Product Manufacturer:** 

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 yellow liquid, odor not determined.

Classification: FLAMMABLE LIQUIDS - Category 4, H227

CORROSIVE TO METALS – Category 1, H290

SKIN CORROSION/IRRITATION – Category 1B, H314

SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1, H318

**GHS Label Elements** 

**Hazard Pictograms:** 



**DANGER Signal Word:** 

H227: Combustible liquid. **Hazard Statements:** 

H290: May be corrosive to metals.

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### Section 2. Hazards Identification

**Hazard Statements (cont.):** H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

**Precautionary Statements** 

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking

P234: Keep only in original packaging.

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

P264 + P265: Wash hands and exposed skin thoroughly after

handling. Do not touch eyes.

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

face protection/hearing protection.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do not Response:

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.

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use dry chemical powder or carbon dioxide to extinguish. DO NOT USE WATER OR FOAM.

P390: Absorb spillage to prevent material-damage.

P403: Store in a well-ventilated place.

P405: Store locked up.

P406: Store in a corrosion resistant container with a resistant inner

liner.

P501: Dispose of contents and container in accordance with Disposal:

federal, state and local regulations.

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

Communication Standard (29 CFR 1910.1200).

**Hazards Not Otherwise** 

Storage:

Product reacts with water to release highly toxic and corrosive

hydrogen chloride gas. Classified (HNOC):

## Section 3. Composition/Information on Ingredients

**Substance Type:** Mono-constituent.

Di-t-butylchlorophosphine; Chlorodi-tert-butylphosphine; CIPtBu2; Synonyms:

P(tBu)2CI; (Me3C)2P-CI.

C<sub>8</sub>H<sub>18</sub>CIP Formula:

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### Section 3. Composition/Information on Ingredients

Molecular Weight: 180.66 g/mol. EC-No.: 604-003-3

Component Name	%	CAS Number
<u>Di-tert-butylchlorophosphine</u>	≥ 97.5	13716-10-4

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. 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 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 emergency

medical help immediately.

**Inhalation:** Remove person to fresh air and keep 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. Do not use the mouth-to-mouth method of resuscitation 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. Get emergency

medical help immediately.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Remove dentures if present. 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 person is not

breathing, if breathing is irregular or if respiratory arrest occurs, see the "Inhalation" first aid measures noted above. Get emergency medical help

immediately.

### Section 4. First Aid Measures

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.

**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.

**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.

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 indicated.

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 releases highly toxic and corrosive hydrogen chloride

gas when exposed to water and/or elevated temperatures.

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

CHEMICAL POWDER PRESSURIZED WITH NITROGEN. Carbon

dioxide  $(CO_2)$  may also be used.

Unsuitable Extinguishing Media: DO NOT USE FOAM OR WATER.

Unusual Fire and Product reacts with water and protic solvents to release

highly toxic and corrosive hydrogen chloride gas which forms explosive mixtures with air at elevated temperatures. 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.

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## Section 5. Fire Fighting Measures

**Unusual Fire and** 

**Explosion Hazards (cont.):** 

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

**Product of Combustion:** 

Hydrogen chloride gas, carbon oxides (CO<sub>x</sub>), phosphine and phosphorus oxides. Toxic/corrosive 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 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 apply water directly to product. 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. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Prevent the formation and inhalation of sprays, mists, vapors and gases. Provide adequate ventilation.

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:** 

Prevent spilled material and firefighting runoff from entering the surrounding environment (soil contact, entry into drains, sewers and waterways). Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Section 6. Accidental Release Measures

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 sprays, mists, vapors and gases. Use spark-proof tools and explosion-proof equipment. 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, absorbent material

(e.g. dry sand, 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. 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 air sensitive and reacts with water to release hydrogen

chloride gas; handle under a dry, inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. 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. 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 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 air sensitive and reacts with water to release hydrogen

chloride gas; store under an inert gas. Nitrogen with less than 5

ppm each of moisture and oxygen is recommended.

### Section 7. Handling and Storage

Safe Storage Conditions:

Store only in the original container protected from direct sunlight in a dry, cool 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.

**Occupational Exposure Limits:** 

Product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the regionspecific regulatory bodies.

**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:** 

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. Prevent the formation and inhalation of 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 sprays and mists.

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### Section 8. Exposure Controls/Personal Protection

Eye/Face Protection (cont.):

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: Chemicalresistant 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 Neoprene or nitrile rubber gloves.

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).

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### Section 9. Physical and Chemical Properties

Physical State: Liquid.

Color: Colorless to yellow.

Odor: Pungent.

Odor Threshold:

pH:

No data available.

No data available.

Melting Point:  $2-3 \,^{\circ}\text{C} \, (35.6-37.4 \,^{\circ}\text{F}).$ Boiling Point:  $48 \,^{\circ}\text{C} \, (118 \,^{\circ}\text{F}) \,^{\odot} \, 4 \,^{\circ}\text{Pa} - \text{lit}.$ Flash Point:  $62 \,^{\circ}\text{C} \, (144 \,^{\circ}\text{F}) - \text{closed cup}.$ 

Auto-ignition temperature:No data available.Vapor Pressure:No data available.Relative Vapor Density:No data available.

Specific Gravity: 0.951 g/ml @ 25 °C - lit.

Water Solubility: Reacts to release hydrogen chloride gas.

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

## Section 10. Stability and Reactivity

Reactivity: Product releases gases which will form an explosive mixture with air upon intense heating or exposure to water.

**Chemical Stability:** Product is air sensitive and reacts with water to release

hydrogen chloride gas; stored under a dry, inert atmosphere and away from heat. Nitrogen containing less than 5 ppm

each moisture and air is recommended.

**Conditions to Avoid:** Exposure to air, water/moisture/protic solvents, intense

heating or extended exposure to elevated temperatures and

direct sunlight.

Incompatible Materials: Strong oxidizing agents.

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire

conditions: hydrogen chloride, phosphine, carbon oxides  $(CO_X)$  and phosphorus oxides. Toxic/corrosive fumes and organic acid vapors 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.

### Section 11. Toxicological Information

Information on Toxicological Effects

No specific data available. Product is harmful if ingested **Acute Toxicity:** 

or inhaled.

**Irritation/Corrosion:** No specific data available. Product is highly corrosive to

skin, eye tissues and mucous membranes.

Sensitization: No specific data available. **Germ Cell Mutagenicity:** No specific data available.

Carcinogenicity

Component	CAS No	ACGIH	IARC	NTP	OSHA
Di-tert-butylchlorophosphine	13716-10-4	Not listed	Not listed	Not listed	Not listed

No specific data available. **Reproductive Toxicity:** No specific data available. **Teratogenicity: Specific Target Organ Toxicity:** No specific data available.

(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.

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

The impact of this product on the environment has not **Ecotoxicity:** 

been tested.

**Numerical Measures of Toxicity:** No specific data available.

Persistence and Degradability

No specific data available. Biodegradability: No specific data available. **Bioaccumulative Potential: Mobility in Soil:** No specific data available.

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

assessment not required/not conducted.

### Section 12. Ecological Information

**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 national, federal, state and local

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

DISCHARGES, OR OTHER SOURCES OF IGNITION: THEY MAY

EXPLODE AND CAUSE INJURY OR DEATH.

### Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN3265	UN3265	UN3265
UN Proper Shipping Name	Corrosive liquid, acidic, organic, n.o.s. (Di-tert-butylchlorophosphine)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Di-tert- butylchlorophosphine)	Corrosive liquid, acidic, organic, n.o.s. (Di-tert-butylchlorophosphine)
Transport Hazard Classes	8	8	8
Packing Group	II	II	II
Environmental Hazards	-	-	-
Additional Information	-	EMS-No: F-A, S-B	-

**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

#### **Toxic Substance Control Act (TSCA)**

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.

This product as supplied is not subject to the TSCA Significant New Use Rule.

This product as supplied is not subject to TSCA 12(b) export notification requirements.

#### **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 (Corrosive to metal), Acute Health Hazard (Skin Corrosion or Irritation; Serious Eye Damage or Eye Irritation).

#### **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.

### **CERCLA Reportable Quantity**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US Department of Homeland Security (DHS)**

This product does not contain any DHS chemicals.

#### **US Department of Transportation (DOT)**

Component	Reportable	DOT Marine	DOT Severe Marine
	Quantity	Pollutant	Pollutant
Di-tert-butylchlorophosphine	No	No	No

### Section 15. Regulatory Information

#### **US State Right-to-Know Listings**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Di-tert-butylchlorophosphine	-	-	-	-	-

<sup>&</sup>quot;X" - Listed.

#### **US State Chemicals of High Concern Listings**

Component	Maine	Vermont	Washington
Di-tert-butylchlorophosphine	-	-	-

<sup>&</sup>quot;X" - Listed.

#### California Proposition 65 Components

This product does not contain any Proposition 65 chemicals.

### 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	2
PHYSICAL HAZARD	1

### Section 16. Other Information

**History** 

Date of Issue/Date of Revision: 9/2/2025.

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).

CHRIS : Chemical Hazards Response Information System (US DOT).

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.

OSHA : Occupational Safety and Health Administration.

PBT : Persistent Bioaccumulative and Toxic.

PEL : Permissible Exposure Limits.

### Section 16. Other Information

### Abbreviations and Acronyms (cont.)

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.

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