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SAFETY DATA SHEET

Section 1. Identification

Product Name:	Methylcyclopentadienyltungsten tricarbonyl hydride
Product Type:	Solid
CAS Number:	84233-37-4
Product Number:	W3374
Recommended Use:	Laboratory chemicals, synthesis of substances.
Uses Advised Against:	This product is being supplied under the TSCA R&D Exemption (40 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.
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:	Pale yellow crystals, odor not determined.
Classification:	FLAMMABLE SOLIDS – Category 1, H228 SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER,
	EMIT FLAMMABLE GASES – Category 3, H261
	ACUTE TOXICITY, ORAL - Category 3, H301
	ACUTE TOXICITY, DERMAL - Category 3, H311
	SKIN CORROSION/IRRITATION - Category 2, H315
	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A, H319
	ACUTE TOXICITY, INHALATION - Category 3, H331
	SPECIFIC ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY
	TRACT IRRITATION - Category 3, H335

Section 2. Hazards Identification

DANGER.

H228: Flammable solid.

H301: Toxic if swallowed.

H311: Toxic in contact with skin. H315: Causes skin irritation.

GHS Label Elements Hazard Pictograms:



Signal Word: Hazard Statements:

Precautionary Statements Prevention:

Response:

H319: Causes serious eye irritation.H331: Toxic if inhaled.H335: May cause respiratory irritation.

H261: In contact with water releases flammable gas.

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P231 + P232: Handle and store contents under inert gas. Protect from moisture.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting/processing equipment.
- P261: Avoid breathing dusts/aerosols/vapors/gases.
- P262: Do not get in eyes, on skin, or on clothing.
- P264 + P265: Wash hands and exposed skin thoroughly after handling. Do not touch eyes.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or with adequate ventilation.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/hearing protection.
- P301 + P316: IF SWALLOWED: Get emergency medical help immediately.
- P302 + P352: IF ON SKIN: Wash with plenty of water.
- P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously 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.

Sec	ction 2. Hazards Identification
Response (cont.):	P332 + P317: If skin irritation occurs: Get medical help.
	P337 + P317: If eye irritation persists: Get medical help.
	P361 + P364: Take off immediately all contaminated clothing and wash it before reuse.
	P370 + P378: In case of fire: Use CO ₂ , dry chemical or foam to extinguish.
Storage:	P402 + P404: Store in a dry place. Store in a closed container.
	P403 + P233: Store in a well ventilated place. Keep container tightly closed.
	P405: Store locked up.
Disposal:	P501: Dispose of contents/container in accordance with federal, state and local regulations.
OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard
	Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise	Reacts with water to release n-methylcyclopentadiene and carbon
Classified (HNOC):	monoxide.

Section 3. Composition/Information on Ingredients

Component Name		0/	CAS Number
Formula Molecular Weight	: C ₉ H ₈ O ₃ W : 348.0		
	(MeCp)WH(CO)3.		
	cyclopentadien-1-yl]; 1,3-Cy complex; Tricarbonyl(hydro)		
Substance Type Synonyms	Mono-constituent.Tungsten, tricarbonylhydro[3

Component Name	%	CAS Number
Methylyclopentadienyltungsten tricarbonyl hydride	≥ 99	84233-37-4

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.

	Section	4. First Aid Measures
Eye Contact:	lower eyelids. Chec	eyes with plenty of water, occasionally lifting the upper and ok for and remove any contact lenses if easy to do. Continue al help if irritation develops and persists, if symptoms develop
Skin Contact:	Take off contamina	ted clothing and shoes immediately. Wash off contaminated water. Get emergency medical help immediately.
Inhalation:	Get emergency med contained breathing present. Remove per breathing, if breath respiration or oxyge providing aid to give mouth method of re artificial respiration	dical help immediately. Rescuer should wear a mask or self- g apparatus if it is suspected that fumes or gases are still erson to fresh air and keep comfortable for breathing. If not ing is irregular or if respiratory arrest occurs, provide artificial en by trained personnel. It may be dangerous to the person e mouth-to-mouth resuscitation. Do not use the mouth-to- esuscitation if victim ingested or inhaled the product; give with the aid of a pocket mask equipped with a one-way valve biratory medical device.
Ingestion:	Get emergency med drink (two glasses a If vomiting occurs, lungs. Never give a	dical help immediately. Rinse mouth, and then give water to at most). Do NOT induce vomiting. Remove dentures if any. the head should be kept low so that vomit does not enter the nything by mouth to an unconscious person.
Most Important Sy		ute And Delayed Potential Acute Health Effects
Eye Contact:	Symptoms may incl	ude stinging, tearing, redness, swelling and blurred vision.
Inhalation:	up blood (hemoptys breathing (dyspnea	mptoms may include a burning sensation, coughing, coughing sis), wheezing, laryngitis, shortness of breath/ difficulty in), blueness (cyanosis) of lips and skin, nausea, headaches, eral weakness and a loss of consciousness.
Skin Contact:	itching sensation, p	h skin. Symptoms may include reddening of skin, a burning or ain, blistering and tissue necrosis as well as symptoms inhalation of the product.
Ingestion:	difficulty swallowing	ymptoms may include pain when swallowing (odynophagia), g (dysphagia), fever, nausea, recurrent vomiting (emesis) and nematemesis) as well as symptoms associated with the oduct.
Indication of Imm	ediate Medical Atter	ntion and Special Treatment Needed, If Necessary
Notes to Physician	:	Treat symptomatically.
Specific Treatmen	ts:	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 Inhalation First Aid Measures above.

See Toxicological Information (Section 11)

Section	5. Fire Fighting Measures
General Hazards:	Product releases a flammable gas and carbon monoxide when exposed to moisture/water.
Suitable Extinguishing Media:	THE MOST EFFECTIVE FIRE EXTINGUISHING AGENT IS DRY CHEMICAL POWDER PRESSURIZED WITH NITROGEN. For small fires, soda ash, lime, dry sand or carbon dioxide (CO ₂) may also be used. For large fires, large quantities of water (flooding) may be applied as a spray or a mist to control the fire, to suppress fumes, vapors and gases and to cool affected containers to prevent explosive ruptures of containers.
Unsuitable Extinguishing Media:	DO NOT USE WATER OR FOAM directly on product as it reacts to produce flammable gases upon contact with water.
Unusual Fire and Explosion Hazards:	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 accumulate in low or confined areas or travel a considerable distance to an ignition source and flashback. Under fire conditions, a pressure increase will occur in the container causing it to rupture, with the risk of a subsequent explosion.
Product of Combustion:	Products formed under fire conditions include carbon oxides (CO_X) and tungsten oxides. Irritating 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. Avoid contact with skin or eyes. Avoid the formation and inhalation of 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

No action shall be taken involving any personal risk or without For Non-Emergency Personnel: suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid the formation and inhalation of dusts and aerosols. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment. For Emergency Responders: If specialized clothing is required to deal with the spillage, take

note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".

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).

Spilled material will likely give off smoke and fumes. Eliminate all local and distant ignition sources. Move containers from spill area if safe to do so. Avoid the formation and inhalation of dusts and aerosols. Avoid allowing the spilled material to get wet or using water to clean up spillages or residues. Use sparkproof tools and explosion-proof equipment. In the event of combustion: cover spillage with a dry, extinguishing material (e.g. dry sand, graphite powder) and allow time for decomposition or for fire to burn out. Dispose of collected spillage in accordance with federal, state and local regulations. Contaminated binding material may pose the same hazard as the spilled product.

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

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. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.

Note: see Section 1 for emergency contact information, Section 5 for firefighting measures and Section 13 for waste disposal.

Environmental Precautions:

Methods for Containment General:

Small Spill:

Large Spill:

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. Avoid formation and inhalation of dusts and aerosols. Keep container tightly sealed. Avoid contact with skin, eyes and clothing. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.
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 is moisture/heat sensitive; store under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen and a temperature of $2 - 8$ °C is recommended. 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
Methylcyclopentadienyltungsten tricarbonyl hydride	84233-37-4	ACGIH	TLV	5 mg/m ³ W TWA 10 mg/m ³ W STEL
		NIOSH	REL	5 mg/m ³ W TWA 10 mg/m ³ W STEL
Engineering Controls:	designed for	hazardous o least 100 fe	chemicals eet per mi	f, chemical fume hood and having an average face nute. Provide an
Environmental Exposure Controls:	be checked t environmenta scrubbers, fil	o ensure the al protection ters or engin	ey comply Legislatio neering m	a process equipment should with the requirements of an. In some cases, fume odifications to the process duce emissions to acceptable
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 dusts or aerosols. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/Face Protection:	be used whe avoid exposu following pro indicates a h goggles, face	n a risk asse ire to aeroso tection shou igher degree eshield (8-ind	essment ir ols or dust Ild be wor e of protec ch minimu	approved standard should ndicates this is necessary to rs. If contact is possible, the rn, unless the assessment ction: chemical splash um). Refer to 29 CFR in Standard EN166.
Skin Protection				
Hand Protection:	approved sta chemical pro necessary. Co manufacture retaining the	ndard shoul ducts if a ris onsidering tl r, check dur ir protective reakthrough	d be worr k assessn he parame ing use th propertie n for any g	ves complying with an at all times when handling nent indicates this is eters specified by the glove lat the gloves are still s. It should be noted that glove material may be acturers.

Section 8. Exposure Controls/Personal Protection

Hand Protection (cont.):	In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.
	Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, wear 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, 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

Section 9. Physical and Chemical Properties

NIOSH (US) or CEN (EU).

Physical State: Color: Odor: Melting Point: Boiling Point: Flash Point: Flammability (solid): Density: Vapor Density: Crystals. Pale yellow. No data available. No data available. No data available. No data available. Product is a Category 1 flammable solid. No data available. No data available.

Section 9. Physical and Chemical Properties

Water Solubility:

Reacts with water to produce a flammable gas and carbon monoxide.

Section 10. Stability and Reactivity

Reactivity:	Product reacts with water to produce a flammable gas and carbon monoxide.
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 discharges), extremes of temperature and direct sunlight.
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: carbon oxides (CO _X) and tungsten oxides. Irritating/toxic 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. In contact with water, product releases a flammable gas and carbon monoxide.

Section 11. Toxicological Information

Information on Toxicological Effects	
Acute Toxicity	: Product is deemed to be toxic if ingested, inhaled or in contact with skin due to the release of carbon monoxide under the noted exposure conditions. No specific test data is available.
Irritation/Corrosion	 Product may be expected to cause skin irritation and serious eye irritation.
Sensitization	: No specific data available.
Germ Cell Mutagenicity	: No specific data available.

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Section 11. Toxicological Information

<u>Carcinogenicity</u>		
IARC	:	No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	:	No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP	:	No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA	:	No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
Reproductive Toxicity	:	No specific data available.
Teratogenicity	:	No specific data available.
Specific Target Organ Toxicity (Single Exposure)	:	Inhalation – May cause respiratory tract irritation.
Specific Target Organ Toxicity (Repeated Exposure)	A	No specific data available.
Aspiration Hazard	:	No specific data available.
Information on the Likely	:	Common routes of exposure: inhalation (failure to
Routes of Exposure		prevent dust formation), dermal (failure to use skin
		protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking after handling product without washing hands or using hand protection).
Additional Information	:	To the best of our knowledge, the chemical, physical

: 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	: No specific data available.
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 Other Adverse Effects

- : 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 (use national and local for EU) regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

Contaminated Packaging

: Empty containers retain product residue (dusts, 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	ΙΑΤΑ
UN Number	UN3396	UN3396	UN3396
UN Proper Shipping Name	Organometallic substance, solid, water-reactive, flammable (Methylcyclopenta- dienyltungsten tricarbonyl hydride)	ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE, FLAMMABLE (Methylcyclopenta- dienyltungsten tricarbonyl hydride)	Organometallic substance, solid, water-reactive, flammable (Methylcyclopenta- dienyltungsten tricarbonyl hydride)
Transport Hazard Classes	4.3 (4.1)	4.3 (4.1)	4.3 (4.1)
Packing Group			
Environmental Hazards	No	No	No
Additional Information	-	EMS-No: F-G, S-N	-

Section 14. Transport 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.
	Net every leaders while expression and interval of the leaders in the large

Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Transporting in Bulk According : Not applicable - this cargo is not intended to be carried in bulk.

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 311/312 Hazards

Fire Hazard (Flammable Solid), Reactive Hazard (In contact with water emits flammable gas), Acute Health Hazard (Toxic if inhaled, swallowed or in contact with skin, Skin corrosion or irritation; Serious eye damage or eye irritation; Specific Target Organ Toxicity (STOT), single exposure: respiratory 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.

CERCLA Reportable Quantity

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

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.)



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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.

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HMIS Rati			
HEALTH	3		
FLAMMAE			
PHYSICAL HAZARD 2			
History	RTDGING CHEMICALGAPS ——		
Date of is	e/Date of Revision : 10/31/2024.		
Date of P	ious Issue : 2/20/2020.		
References	: None available.		
Abbreviati	and Acronyms		
ACGIH	American Conference of Governmental Industrial Hygienists.		
ATE	Acute Toxicity Estimate (per Chapter 3.1 of GHS 10 standard).		
CAS	Chemical Abstracts Service (division of the American Chemical Society).		
CLP	Classification, Labeling and Packaging (European Union (EU)).		
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.		
ELINCS	European List of Notified Chemical Substances.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		

GHS Globally Harmonized System of Classification and Labeling of Chemicals.

Section 16. Other Information

Abbreviations and Acronyms (cont.)

Appreviation	12	
HMIS HNOC	:	Hazardous Materials Identification System. Hazards Not Otherwise Classified.
	•	
IARC	•	International Agency for Research on Cancer.
IATA	:	International Air Transport Association.
IATA-DGR	:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA).
IDLH	:	Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).
IMDG	:	International Maritime Code for Dangerous Goods.
NFPA	:	National Fire Protection Association.
NIOSH	:	National Institute of Occupational Safety and Health.
NTP	:	National Toxicology Program.
OECD	:	Organization for Economic Co-Operation and Development.
OEL	:	Occupational Exposure Limit.
OSHA	:	Occupational Safety and Health Administration.
PBT	:	Persistent Bioaccumulative and Toxic.
PEL	:	Permissible Exposure Limits.
REL	:	Recommended Exposure Limits.
SARA	:	Superfund Amendments and Reauthorization Act.
STEL (ST)	:	Short Term Exposure Limit (ACGIH/NIOSH)
STOT	•	Specific Target Organ Toxicity.
TLV	:	Threshold Limit Values (ACGIH).
TWA	:	Time Weighted Average.
VOC	:	Volatile Organic Compound.
vPvB		Very Persistent and Very Bioaccumulative.

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.