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# SAFETY DATA SHEET

### Section 1. Identification

**Product Name:** Bis(cyclopentadienyl)magnesium(II)

Product Type: Solid

CAS Number: 1284-72-6 Product Number: MG4726

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

Product Manufacturer: Ereztech LLC

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

**Product Information:** (888) 658-1221

In Case of an Emergency: CHEMTREC: 1-800-424-9300 (USA);

+1 703-527-3887 (International); CCN836180
\*\*\* Contact manufacturer for all non-emergency calls.

### Section 2. Hazards Identification

Appearance/Odor: White powder/crystals, odor not determined.

Classification: FLAMMABLE SOLIDS – Category 1, H228
PYROPHORIC SOLIDS – Category 1, H250

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.

H250: Catches fire spontaneously if exposed to air.

H260: In contact with water releases flammable gases which may

ignite spontaneously.

### 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.

P222: Do not allow contact with air. 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.

P260: Do not inhale dusts, aerosols, 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 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.

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

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

P405: Store locked up.

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

This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Product reacts violently with water.

Response:

Storage:

Disposal:

OSHA/HCS Status:

Hazards Not Otherwise Classified (HNOC):

## Section 3. Composition/Information on Ingredients

Substance Type: Mono-constituent.

**Synonyms:** Bis(cyclopentadienyl)magnesium; Magnesocene; MgCp2.

Formula:  $C_{10}H_{10}Mg$  Molecular Weight: 154.49 g/mol. EC-No.: 603-275-0

Component Name	%	CAS Number
Bis(cyclopentadienyl)magnesium(II)	≥ 98	1284-72-6

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.

## Section 4. First Aid Measures

Ingestion (cont.): 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.

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

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

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

temporary/permanent loss of vision.

Skin contact with this product may be expected to cause severe chemical burns. **Skin Contact:** 

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. No specific treatment. **Specific Treatments:** 

No action taken shall be taken involving any personal risk **Protection of First Responders:** 

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

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

> CHEMICAL POWDER PRESSURIZED WITH NITROGEN. Carbon dioxide (CO<sub>2</sub>) may also be used. CAUTION: REIGNITION MAY

OCCUR.

## Section 5. Fire Fighting Measures

**Unsuitable Extinguishing Media:** 

DO NOT USE FOAM, WATER, CARBON TETRACHLORIDE OR CHLOROBROMOMETHANE extinguishing agents as product either reacts violently or liberates toxic fumes and vapors upon contact with these agents.

**Unusual Fire and Explosion Hazards:**  Product is pyrophoric and also reacts violently with water and protic solvents to release flammable gases that may ignite spontaneously. Gases released form explosive mixtures with air at elevated temperatures. 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. Gases released when product is exposed to water are heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to an ignition source and flashback.

**Product of Combustion:** 

Carbon oxides (CO<sub>x</sub>) and magnesium oxide fumes. 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. Prevent contact with skin or eyes. Prevent 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

For Non-Emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take action to prevent static discharges. Use non-sparking tools and equipment.

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## Section 6. Accidental Release Measures

For Non-Emergency Personnel: Beware of vapors accumulating in low areas to form explosive

concentrations. 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

Spilled material will likely give off smoke and fumes; ignition

product has caused environmental pollution (sewers,

waterways, soil or air).

Methods for Containment

General:

may occur immediately. Eliminate all local and distant ignition sources. Move containers from spill area if safe to do so. Prevent the formation and inhalation of dusts, aerosols, vapors and gases. Do not allow the spilled material to get wet or use water to clean up spillages or residues. Use spark-proof tools and explosion-proof equipment. In the event of combustion:

cover spillage with a dry, extinguishing material (e.g. dry sand, dry chemical, graphite powder) and allow time for

decomposition or for fire to burn out (see Section 5 Firefighting Measures). Collect and place inert spillage in a dry, sealed

container for disposal. Dispose of collected spillage in accordance with federal, state and local regulations.

Contaminated binding material may pose the same hazard as

the spilled product.

Small Spill: 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.

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

water courses, basements or confined areas. Contain and collect spillage with a dry, non-combustible, binding material (e.g. 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 pyrophoric and also reacts violently with water to release 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. Prevent the formation and inhalation of dusts, aerosols, vapors and gases. Prevent contact with skin, eyes and clothing. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.

**Protective Measures:** 

Protect against electrostatic discharges. Use explosion-proof electrical/ventilating/lighting/handling equipment. Use 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 pyrophoric and also reacts violently with water to release flammable gases which may ignite spontaneously; store under an inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen and a temperature range 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.

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## Section 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits:** Product, as supplied, does not contain any hazardous materials

with occupational exposure limits established by the region-

specific 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

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the

levels.

**Individual Protection Measures** 

**Hygiene Measures:** 

lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale dusts, aerosols, 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 dusts and aerosols. 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:** 

When handling pyrophoric substances, flame/chemical-resistant gloves complying with an approved standard should be worn at all times 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.

## Section 8. Exposure Controls/Personal Protection

Hand Protection (cont.):

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 flame-resistant Neoprene or nitrile rubber.

Other Skin Protection: Appropriate footwear (closed toed) and a flame-retardant lab

coat or apron should be worn when handling pyrophoric substances. Any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity discharges, wear anti-static, flame retardant protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots

and gloves.

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

appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

## Section 9. Physical and Chemical Properties

Physical State: Solid (powder/crystals).

Color: White.

Odor:

Odor Threshold:

No data available.

176 °C (348.8°F).

**Boiling Point:** 290 °C (554 °F) @ 760 mmHg (decomposes).

Flash Point:  $13.9 \pm 13.0 \, ^{\circ}\text{C}$ . Auto-ignition temperature: No data available.

**Density:** 1.1 g/cm<sup>3</sup>.

Vapor Pressure: 0.043 mmHg @ 25 °C.

Vapor Density: No data available.

Water Solubility: Product reacts violently, may ignite upon contact.

## Section 10. Stability and Reactivity

Product is pyrophoric and also reacts violently with water Reactivity:

> and protic solvents to release flammable gases and may ignite spontaneously. Compounds containing oxygen or organic halide may react vigorously upon contact with the

product.

This product is stable when stored under a dry, inert Chemical Stability:

> 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:** Organic halides and oxidizing agents.

**Hazardous Decomposition Products:** 

Hazardous decomposition products formed under fire conditions: carbon oxides (CO<sub>x</sub>) and magnesium oxide fumes. Irritating 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. Product is pyrophoric and also reacts violently with water to release flammable gases and may ignite spontaneously.

## Section 11. Toxicological Information

#### Information on Toxicological Effects

No specific data available. **Acute Toxicity:** 

No specific data available. Product may be expected to Irritation/Corrosion:

cause thermal and/or chemical burns to the skin, eyes

and exposed mucous membranes.

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

Carcinogenicity

Component	CAS No	ACGIH	IARC	NTP	OSHA
Bis(cyclopentadienyl)magnesium(II)	1284-72-6	Not listed	Not listed	Not listed	Not listed

**Reproductive Toxicity:** No specific data available. Teratogenicity: No specific data available.

## Section 11. Toxicological Information

**Specific Target Organ Toxicity:** 

(Single Exposure)

No specific data available.

**Specific Target Organ Toxicity:** 

No specific data available.

(Repeated Exposure)

**Aspiration Hazard:** No specific data available.

Information on the Likely

**Routes of Exposure:** 

Common routes of exposure: inhalation (failure to 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: Ingestion will result in burns of the mouth, throat,

esophagus and digestive tract.

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

thoroughly investigated.

# Section 12. Ecological Information

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

been tested.

Numerical Measures of Toxicity: No specific data available.

Persistence and Degradability

Biodegradability:

Bioaccumulative Potential:

Mobility in Soil:

No specific data available.

No specific data available.

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

assessment not required/not conducted.

**Endocrine Disrupting Properties:** No specific data available.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event

of unprofessional handling or disposal.

## Section 13. Disposal Considerations

**Waste Treatment Methods** 

**Product:** Dispose of in accordance with local, state, and federal

regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal

agency before disposing of any chemicals.

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## Section 13. Disposal Considerations

#### **Contaminated Packaging:**

Empty containers retain product residue (solids and/or dusts) and can be dangerous. Dispose of as unused product. DO NOT EXPOSE SUCH CONTAINERS TO AIR, MOISTURE, 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	UN3393	UN3393	UN3393	
UN Proper Shipping Name	Organometallic substance, solid, pyrophoric, water- reactive (Bis(cyclopentadienyl) magnesium (II))	ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER- REACTIVE (Bis(cyclopentadienyl) magnesium (II))	Organometallic substance, solid, pyrophoric, water- reactive (Bis(cyclopentadienyl) magnesium (II))	
Transport Hazard Classes	4.2 (4.3)	4.2 (4.3)	4.2 (4.3)	
Packing Group				
Environmental Hazards	-	1		
Additional		EMS-No: F-G, S-M	IATA Passenger: Not	
Information			permitted for transport	
B R I I	) G I N G C H	EMICAL	IATA Cargo: Not 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.

## Section 15. Regulatory Information

#### Toxic Substance Control Act (TSCA)

This product as supplied is listed as "Active" on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory).

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.

## Section 15. Regulatory Information

#### **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 solid), Reactivity Hazard (Pyrophoric solid; In contact with water emits flammable gas), 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 M Quantity	DOT Marine Pollutant	DOT Severe Marine Pollutant
Bis(cyclopentadienyl)magnesium(II)	No	No	No

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

	9				
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bis(cyclopentadienyl) magnesium(II)	-	-	-	-	-

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

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

Component	Maine	Vermont	Washington
Bis(cyclopentadienyl)magnesium(II)	-	-	-

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

#### California Proposition 65 Components

This product does not contain any Proposition 65 chemicals.

### 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.

#### **HMIS Rating**

HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARD	3

#### **History**

Date of Issue/Date of Revision: 6/30/2025. 4/26/2020. **Date of Previous Issue:** None available References:

#### 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).

Biological Exposure Indices (ACGIH). BEI

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

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).

## Section 16. Other Information

#### **Abbreviations and Acronyms**

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.
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.

## Section 16. Other Information

#### **Disclaimer (cont.)**

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.

