

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Bis(cyclopentadienyl)magnesium(II)

## 2. HAZARDS IDENTIFICATION

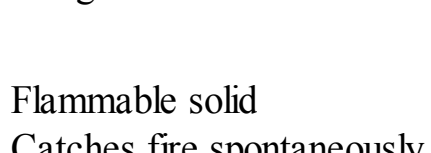
### Classification of the substance or mixture

According to Regulation (EC) No1272/2008  
Flammable solids (Category 2)  
Pyrophoric solids (Category 1)  
Substances, which in contact with water, emit flammable gases (Category 2)  
Skin corrosion (Category 1B)  
Serious eye damage (Category 1)

According to European Directive 67/548/EEC as amended.  
Highly flammable. Reacts violently with water. Spontaneously flammable in air. Causes burns.

### Label elements

Pictogram



Signal word : Danger

Hazard statement(s)

H228 Flammable solid  
H250 Catches fire spontaneously if exposed to air.  
H261 In contact with water releases flammable gases.  
H314 Causes severe skin burns and eye damage.  
EUH014 Reacts violently with water.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P222 Do not allow contact with air.  
P231 + P232 Handle under inert gas. Protect from moisture.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P422 Store contents under inert gas.

Hazard symbol(s)

F Highly flammable  
C Corrosive

R-phrases(s)

R11 Highly flammable.  
R14 Reacts violently with water.  
R17 Spontaneously flammable in air.  
R34 Causes burns.

S-phrases(s)

S8 Keep container dry.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S43 In case of fire, use fire-fighting equipment on basis class D.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : MgCp2

Formula : C10H10Mg

Molecular Weight : 154,49 g/mol

CAS-No.	EC-No.	Classification	Concentration
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<b>Bis(cyclopentadienyl)magnesium(II)</b>			
1284-72-6	-	Flam. Sol. 2; Pyrophoric solid 1; Water-react 2; Skin Corr. 1B; Eye Dam. 1; H228, H250, H261, H314, EUH014 F, C, R11 - R14 - R17 - R34	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Carbon dioxide (CO2) Dry powder

### Extinguishing media which shall not be used for safety reasons

Water

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Never allow product to get in contact with water during storage.

Air and moisture sensitive. Store under inert gas.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

#### Hand protection

Handle with 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.

Protective gloves against thermal risks

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : solid

Colour : white

### Safety data

pH : no data available

Melting point : 180 °C - dec.

Boiling point : 50 °C at 0,1 hPa

Flash point : no data available

Flammability (solid, gas) : The substance or mixture is a flammable solid with the subcategory 2.

Ignition temperature : Auto-flammability

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : 1,00 hPa at 60 °C  
0,05 hPa at 25 °C

Water solubility : Decomposes in contact with water.

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Reacts violently with water.

### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Exposure to moisture.

### Materials to avoid

Bases, Oxidizing agents, acids, Alcohols, Water, These compounds ignite in air and may react explosively with water

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Magnesium oxide

### Thermal decomposition

Thermal sensitivity

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Potential health effects

**Inhalation** : May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion** : May be harmful if swallowed. Causes burns.

**Skin** : May be harmful if absorbed through skin. Causes skin burns.

**Eyes** : Causes eye burns.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Additional Information

RTECS: Not available

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

UN-Number: 3393 Class: 4.2 (4.3) Packing group: I

Proper shipping name: ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE

(Bis(cyclopentadienyl)magnesium(II))

### IMDG

UN-Number: 3393 Class: 4.2 (4.3) Packing group: I EMS-No: F-G, S-M

Proper shipping name: ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE

(Bis(cyclopentadienyl)magnesium(II))

Marine pollutant: No

### IATA

UN-Number: 3393 Class: 4.2 (4.3)

Proper shipping name: Organometallic substance, solid, pyrophoric, water-reactive

(Bis(cyclopentadienyl)magnesium(II))

IATA Passenger: Not permitted for transport

IATA Cargo: Not permitted for transport

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. OTHER INFORMATION

### Text of H-code(s) and R-phrases(s) mentioned in Section 3

EUH014 Reacts violently with water.

EYE Dam. Serious eye damage

Flam. Sol. Flammable solids

H228 Flammable solid

H250 Catches fire spontaneously if exposed to air.

H261 In contact with water releases flammable gases.

H314 Causes severe skin burns and eye damage.

Pyrophoric solid Pyrophoric solids

C Corrosive

F Highly flammable

R11 Highly flammable.

R14 Reacts violently with water.

R17 Spontaneously flammable in air.

R34 Causes burns.

### Further information

For R&RD use only. Not for drug, household or other uses.

WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.