

INTATRADE
MATERIAL SAFETY DATA SHEET
 Regulation (EC) No 1907/2006

Printed: 28.02.2022

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

Product name: Bis(methylcyclopentadienyl)magnesium
 Product number: EO00927
 Company: INTATRADE Chemicals GmbH
 Bahnhofstr. 1
 06774 Muldestausee OT Friedersdorf, Germany
 Phone: +49 3493/605464
 Fax : +49 3493/605470
 e-mail: intatrade@intatrade.de

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
 According to Regulation (EC)
 No1272/2008

Flammable solids (Category 2)
 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
 Label elements
 Pictogram



Signal word
 Hazard statement(s)

Danger
 H228 Flammable solid.
 H261 In contact with water releases flammable gases.
 H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 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-phrase(s)

R11 Highly flammable.
 R14 Reacts violently with water.
 R34 Causes burns.

S-phrase(s)

S 8 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.

Other hazards S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name	Bis(methylcyclopentadienyl)magnesium
CAS no.	40672-08-0
Formula	C ₁₂ H ₁₄ Mg

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 (CO ₂) 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 vapours, 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. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

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

Form:	Solid
Colour:	White
pH:	No data available
Melting point:	29°C
Boiling point:	56-60°C at 0.3hPa
Flash point:	No data available
Flammability (solid, gas):	The substance or mixture is a flammable solid with the subcategory 2.
Ignition temperature:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapour pressure:	No data available
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	no data available
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	no data 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: 3395 Class: 4.3 Packing group: II Proper shipping name: ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE BIS(METHYLCYCLOPENTADIENYL)MAGNESIUM
IMDG	UN-Number: 3395 Class: 4.3 Packing group: II EMS-No: F-G, S-M Proper shipping name: ORGANOMETALLIC SUBSTANCE, SOLID, WATER-REACTIVE BIS(METHYLCYCLOPENTADIENYL)MAGNESIUM Marine pollutant: No
IATA	UN-Number: 3395 Class: 4.3 Proper shipping name: Organometallic substance, solid, water-reactive BIS(METHYLCYCLOPENTADIENYL)MAGNESIUM

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-phrase(s) mentioned in Section 3

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.
Skin Corr.	Skin corrosion
C	Corrosive
F	Highly flammable
R11	Highly flammable.
R14	Reacts violently with water.
R34	Causes burns.

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. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.