

Chemical Safety Data Sheet MSDS / SDS

HEXYLMAGNESIUM BROMIDE

Revision Date:2026-03-21 Revision Number:1

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Product name : HEXYLMAGNESIUM BROMIDE
CBnumber : CB7668890
CAS : 3761-92-0
Synonyms : bromohexyl-magnesi ;Hexylbromomagnesium

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.
Uses advised against : none

Company Identification

Company : Chemicalbook
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing
Telephone : 010-86108875

SECTION 2: Hazards identification**GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

Precautionary statements

P422 Store contents under ...

P370+P378 In case of fire: Use ... for extinction.

P231+P232 Handle under inert gas. Protect from moisture.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P222 Do not allow contact with air.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Hazard statements

H250 Catches fire spontaneously if exposed to air

H260 In contact with water releases flammable gases which may ignite spontaneously

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H336 May cause drowsiness or dizziness

H225 Highly Flammable liquid and vapour

SECTION 3: Composition/information on ingredients

Substance

Product name : HEXYLMAGNESIUM BROMIDE
Synonyms : bromohexyl-magnesium ; Hexylbromomagnesium
CAS : 3761-92-0
MF : C6H13BrMg
MW : 189.38

SECTION 4: First aid measures

First Aid Measures

General advice

Consult a physician if necessary. Remove to fresh air.

Eye contact

Wash with plenty of water.

Skin Contact

Wash skin with soap and water.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion

Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

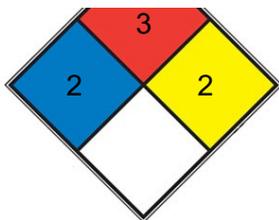
SECTION 5: Firefighting measures

Suitable Extinguishing Media In case of fire chemical for firefighters (approved or

Use CO₂, dry chemical, or foam for extinction. (suitable) and full protective gear.

NFPA 704





<input checked="" type="checkbox"/>	HEALTH 2	Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. diethyl ether , ammonium phosphate, iodine)
<hr/>		
<input checked="" type="checkbox"/>	FIRE 3	Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions . Liquids having a flash point below 22.8 °C (73 °F) and having a boiling point at or above 37.8 °C (100 °F) or having a flash point between 22.8 and 37.8 °C (73 and 100 °F). (e.g. gasoline, acetone)
<hr/>		
<input checked="" type="checkbox"/>	REACT 2	Undergoes violent chemical change at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water (e.g. white phosphorus, potassium , sodium)
<hr/>		
<input type="checkbox"/>	SPEC.	
<input type="checkbox"/>	HAZ.	

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Remove all sources of ignition.

Environmental precautions

Environmental precautions

See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store at room temperature.

Odor	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling point	65 °C
Flash point	-40 °C CC (closed cup)
Liquid Density	0.97 g/mL
Evaporation rate	No information available
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Density and/or relative density	0.97 g/mL at 20 °C
Colour	Brown

SECTION 10: Stability and reactivity

Reactivity

Not applicable

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

No information available.

Conditions to avoid

Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Incompatible materials

Strong oxidizing agents. Water.

Hazardous Decomposition Products

Carbon oxides.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation

Classified based on available data. For more details, see section 2.

Eye contact

Classified based on available data. For more details, see section 2.

Skin Contact

Classified based on available data. For more details, see section 2.

Ingestion

Classified based on available data. For more details, see section 2.

Information on toxicological effects

Symptoms

Classified based on available data. For more details, see section 2.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Classified based on available data. For more details, see section 2. Target Organ Effects Central nervous system, Eyes, Respiratory system, Skin. Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name ACGIH IARC NTP OSHA

Diethyl Ether - Group

3 - - 60-29-7

Numerical measures of toxicity - Product Information

Unknown acute toxicity

53.092% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

1215 mg/kg

ATEmix (inhalation-vapor)

32000 mg/l

SECTION 12: Ecological information

Ecotoxicity

May cause long lasting harmful effects to aquatic life

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
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Diethyl Ether 60-29-7	10000: 96 h Lepomis macrochirus mg/L LC50 static 2560: 96 h Pimephales promelas mg/L LC50 flow-through	165: 24 h Daphnia magna mg/L EC50
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53.092% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Diethyl Ether -

10000: 96 h Lepomis - 165: 24 h Daphnia magna

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Diethyl Ether

0.82 60-29-7

SECTION 13: Disposal considerations

Disposal of wastes

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging

Do not reuse container.

US EPA Waste Number

D001

California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Diethyl Ether 60-29-7	Ignitable Reactive

Diethyl Ether

Ignitable

SECTION 14: Transport information

DOT

UN/ID no

UN2924

Hazard Class

3

Subsidiary class

8

Packing Group

I

Proper shipping name

Flammable liquids, corrosive, n.o.s. Reportable Quantity (RQ) (Diethyl Ether: RQ (kg)= 45.40)

Description

UN2924, Flammable liquids, corrosive, n.o.s. (Diethyl Ether), 3 (8), I

Emergency Response Guide Number

132

IMDG

UN/ID no

UN2924

Hazard Class

3

Subsidiary hazard class

8

Packing Group

I

Proper shipping name

Flammable liquid, corrosive, n.o.s.

Description

UN2924, Flammable liquid, corrosive, n.o.s. (Diethyl Ether), 3 (8), I, (-40°C c.c.)

Special Provisions

274

EmS-No

F-E, S-C

IATA

UN/ID no

UN2924

Hazard Class

3

Subsidiary hazard class

8

Packing Group

I

Proper shipping name

Flammable liquid, corrosive, n.o.s.

Description

UN2924, Flammable liquid, corrosive, n.o.s. (Diethyl Ether), 3 (8), I

ERG Code

3CH

SECTION 15: Regulatory information

International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL)

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hexylmagnesium bromide	X	-	X	-	-	-	-	-	-	-
Diethyl Ether	X	X	-	X	-	X	X	X	X	X

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard

Yes

Chronic Health Hazard

No

Fire hazard

Yes

Sudden release of pressure hazard

No

Reactive hazard

No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diethyl Ether 60-29-7	X	X	X

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.