

Chemical Safety Data Sheet MSDS / SDS

O-TOLYLMAGNESIUM BROMIDE

Revision Date:2026-05-31 Revision Number:1

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

Product name : O-TOLYLMAGNESIUM BROMIDE
CBnumber : CB0474999
CAS : 932-31-0
EINECS Number : 213-250-2
Synonyms : o-tolylmagnesium bromide,o-tol

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

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continuerinsing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

Hazard statements

H336 May cause drowsiness or dizziness

H314 Causes severe skin burns and eye damage

H225 Highly Flammable liquid and vapour

SECTION 3: Composition/information on ingredients

Substance

Product name	: O-TOLYLMAGNESIUM BROMIDE
Synonyms	: o-tolylmagnesium bromide,o-tol
CAS	: 932-31-0
EC number	: 213-250-2
MF	: C7H7BrMg
MW	: 195.34

SECTION 4: First aid measures

If inhaled

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

In case of skin contact

Take off all contaminated clothing immediately. If on skin, rinse well with water. Call a POISON CENTER or doctor/ physician.

In case of eye contact

Rinse with plenty of water. If easy to do, remove contact lens, if worn. Immediately call a POISON CENTER or doctor/ physician.

If swallowed

Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

None known.

SECTION 5: Firefighting measures

Suitable extinguishing media

Dry powder, Dry sand, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water

Specific hazards during fire fighting

No information available.

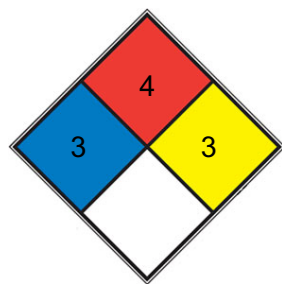
Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

Special protective equipment for fire-fighters

Use personal protective equipment.

NFPA 704



☒ HEALTH 3 Short exposure could cause serious temporary or moderate residual injury (e.g. [liquid hydrogen](#), [sulfuric acid](#), [calcium hypochlorite](#), hexafluorosilicic acid)

☒ FIRE 4 Will rapidly or completely vaporize at normal atmospheric pressure and temperature, or is readily dispersed in air and will burn readily. Includes pyrophoric substances. Flash point below room temperature at 22.8 °C (73 °F). (e.g. acetylene, propane, [hydrogen gas](#))

☒ REACT 3 Capable of detonation or explosive decomposition but requires a strong initiating source, must be heated under confinement before initiation, reacts explosively with water, or will detonate if severely shocked (e.g. [ammonium nitrate](#), cesium, hydrogen peroxide)

☐ SPEC.

☐ HAZ.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Collect as much of the spill as possible with a suitable absorbent material.

SECTION 7: Handling and storage

Handling

Technical measures

Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.

Local/Total ventilation

Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local

exhaust ventilation.

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling. Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as paper, rags, etc. Use only clean and dry utensils.

Handle under inert gas.

Avoidance of contact

water, Oxidizing agents

Storage

Conditions for safe storage

Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment. Protect from moisture. Keep under inert gas. Store locked up.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS RN	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Tetrahydrofuran	109-99-9	PC-TWA	300 mg/m ³	CN OEL
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH

Components CAS RN Value type Control parameters Basis (Form of exposure / Permissible concentration)

Tetrahydrofuran 109-99-9 PC-TWA 300 mg/m³ CN OEL

TWA 50 ppm ACGIH

STEL 100 ppm ACGIH

Engineering measures

Install a closed system or local exhaust.

Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection

Gas mask

Self-contained breathing apparatus

Eye/face protection

Safety glasses

Safety goggles

Face-shield

Skin and body protection

Impervious protective clothing

Hand protection

Impervious gloves *Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national

regulations.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

liquid

Color

Gray to brown

Odor

No data available

Odor Threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Boiling point/boiling range

No data available

Flash point

-40 °F

Evaporation rate

No data available

Flammability

No data available

Upper explosion limit / Upper flammability limit

No data available

Lower explosion limit / Lower flammability limit

No data available

Vapor pressure

No data available

Solubility(ies)

Water solubility

No data available

Solubility in other solvents

No data available

Partition coefficient: n-octanol/water (log value)

No data available

Autoignition temperature

No data available

Decomposition temperature

No data available

Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

No data available

Molecular weight

195.34 g/mol

Density and/or relative density

1.013 g/mL at 25 °C

Physical state

Solution

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Electrical spark Open flame Electrostatic discharge Exposure to moisture.

Incompatible materials

water, Oxidizing agents

Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO₂), hydrogen bromide, Metal oxides

SECTION 11: Toxicological information

Acute toxicity

Product

Acute oral toxicity

Assessment: The component/mixture is moderately toxic after single ingestion.

Components

Tetrahydrofuran

Acute oral toxicity

LD₅₀ (Rat): 1,650 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity

LC₅₀ (Rat): 21000 ppm Exposure time: 3 h Test atmosphere: gas Assessment: The substance or mixture has no acute inhalation toxicity

Acute toxicity (other routes of administration)

LD₅₀ (Rat): 2,900 mg/kg Application Route: Intraperitoneal injection

Skin corrosion/irritation

Product

Result

Causes burns.

Components

Tetrahydrofuran

Result

Skin irritation

o-Tolylmagnesium Bromide

Result

Causes burns.

Serious eye damage/eye irritation

Product

Result

Irreversible effects on the eye

Components

Tetrahydrofuran

Result

Eye irritation

o-Tolylmagnesium Bromide

Result

Irreversible effects on the eye

Respiratory or skin sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

Product

Carcinogenicity - Assessment

Suspected human carcinogens

Components

Tetrahydrofuran

Carcinogenicity - Assessment

Suspected human carcinogens

Reproductive toxicity

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

STOT-single exposure

Product

Assessment

May cause respiratory irritation.

Target Organs

Nervous system

Assessment

May cause damage to organs.

Components

Tetrahydrofuran

Assessment

May cause respiratory irritation.

Target Organs

Nervous system

Assessment

May cause damage to organs.

STOT-repeated exposure

Product

Target Organs

Liver, Nervous system, Kidney

Assessment

Causes damage to organs through prolonged or repeated exposure.

Components

Tetrahydrofuran

Target Organs

Liver, Nervous system, Kidney

Assessment

Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

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

Aspiration toxicity

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

RTECS No.

LU5950000 (Tetrahydrofuran)

SECTION 12: Ecological information**Ecotoxicity****Components:****Tetrahydrofuran:****Toxicity to fish**

LC50 (Pimephales promelas (fathead minnow)): 2,160 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 5,930 mg/l Exposure time: 24 h

Persistence and degradability**Components:****Tetrahydrofuran:****Biodegradability**

Biochemical oxygen demand Result: Readily biodegradable. Biodegradation: 100 %

Bioaccumulative potential**Components:****Tetrahydrofuran:**

octanol/water (log value)

Partition coefficient: octanol/water (log value)

0.46

Mobility in soil**Components:****Tetrahydrofuran:**

tal compartments

Distribution among environmental compartments

Koc: 18 - 23

Other adverse effects

No data available

SECTION 13: Disposal considerations

Disposal methods

Waste from residues

Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.

Contaminated packaging

Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

SECTION 14: Transport information

International Regulations

IATA-DGR

UN/ID No.

UN 2924

Proper shipping name

Flammable liquid, corrosive, n.o.s.

Class

3

Subsidiary risk

8

Packing group

II

IMDG-Code

UN number

UN 2924

Proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Class

3

Subsidiary risk

8

Packing group

II

EmS Code

F-E, S-C

Domestic regulation

GB 6944/12268

UN number

UN 2924

Proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Class

3

Subsidiary risk

8

Packing group

II

SECTION 15: Regulatory information

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals

Listed

Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number

B1A232216195

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

The ingredients of this product are reported in the following inventories

CH BAGREG

On the inventory, or in compliance with the inventory

TSCA

Substance(s) not listed on TSCA inventory

AICS

Not in compliance with the inventory

DSL

This product contains the following components that are not on the Canadian DSL nor NDSL.

o-Tolylmagnesium Bromide

ENCS

Not in compliance with the inventory

ISHL

Not in compliance with the inventory

KECI

Not in compliance with the inventory

PICCS

Not in compliance with the inventory

IECSC

Not in compliance with the inventory

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.