

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)
Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 20-08-2026

Revision Date: 18-07-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: (1,3-Dioxan-2-ylethyl)magnesium bromide solution,
Product Code: D 2368
CAS No: 480438-44-6

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2
Acute toxicity, Category 4
Serious eye damage, Category 1
Carcinogenicity, Category 2
Specific target organ toxicity -
single exposure, Category 3, Central
nervous system

Specific target organ toxicity -
single exposure, Category 3,
Respiratory system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Hazard statements

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H318: Causes serious eye damage.
H351: Suspected of causing cancer.
H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

: Danger
: H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
: EUH019 May form explosive peroxides.

Supplemental Hazard
Statements
Precautionary
statements

Prevention:

P202 Do not handle until all safety precautions
have been read and understood.
P210 Keep away from heat, hot surfaces, sparks,
open flames and other ignition sources. No
smoking.

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

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/
doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Tetrahydrofuran

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 11,53 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 11,53 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 11,53 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 11,53 %

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H351

H318

Precautionary Statements

P202

P280

P305 + P351 + P338

P308 + P313

Supplemental Hazard information (EU)

EUH019

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

:

Danger

Suspected of causing cancer.

Causes serious eye damage.

Do not handle until all safety precautions have been read and understood.

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

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

May form explosive peroxides.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
Tetrahydrofuran	109-99-9 203-726-8	Flam. Liq. 2; H225 Acute Tox. 4; H302 Eye Dam. 1; H318 Carc. 2; H351 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) EUH019 specific concentration limit Eye Irrit. 2; H319 >= 25 % STOT SE 3; H335 >= 25 % Acute toxicity estimate Acute oral toxicity: 1.650 mg/kg	>= 70 - < 90

: EUH019 May form explosive peroxides.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: immediately make victim drink water (two glasses at most).

Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2 GHS label elements) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

Combustible.

Pay attention to flashback.

Forms explosive mixtures with air at ambient temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products

Carbon oxides

5.3 Advice for firefighters

Special protective

equipment for firefighters

Stay in danger area only with self-contained breathing

apparatus. Prevent skin contact by keeping a safe

distance or by wearing suitable protective clothing.

Further information : Remove container from danger zone and cool with water.

Prevent fire extinguishing water from contaminating

surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel: Do not breathe vapours, aerosols.

Avoid substance contact.

Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

Wear appropriate personal protective equipment, as indicated in Section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully with liquid-absorbent material (e.g. Chemisorb®).

Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Advice on protection

against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2 GHS label elements

7.2 Conditions for safe storage, including any incompatibilities

Further information on

storage conditions

Keep container tightly closed in a dry and wellventilated place.

Keep away from heat and sources of ignition.

Storage class (TRGS 510) : 3, Flammable liquids

Further information on : Handle and store under inert gas.

storage stability Air sensitive.

Dry residue is explosive.

Test for peroxide formation periodically and before distillation.

Recommended storage

Temperature 2 - 8 °C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Tetrahydrofuran	Worker DNEL, longterm	Inhalation	Local effects	150 mg/m3
	Worker DNEL, longterm	Inhalation	Systemic effects	150 mg/m3
	Worker DNEL, longterm	Dermal	Systemic effects	25 mg/kg
	Worker DNEL, longterm	Inhalation	Systemic effects	62 mg/m3
	Worker DNEL, longterm	Dermal	Systemic effects	15 mg/kg
	Consumer DNEL, acute	Inhalation	Local effects	150 mg/m3
	Consumer DNEL, acute	Inhalation	Systemic effects	150 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Tetrahydrofuran	Fresh water	4,32 mg/l
Tetrahydrofuran	Fresh water sediment	23,3 mg/kg
	Marine water	0,432 mg/l
	Marine sediment	2,33 mg/kg
	Sewage treatment plant	4,6 mg/l
	Soil	2,13 mg/kg
	Aquatic intermittent release	21,6 mg/l

8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Hand protection

Remarks : required

Skin and body protection : Flame retardant antistatic protective clothing.

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN

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EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: No data available
Odour	: No data available
Melting point	: No data available
Boiling point/boiling range	: 65 °C
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: < -17 °C
Autoignition temperature	: Method: closed cup
Decomposition temperature	: No data available
pH	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Water solubility	: No data available
Partition coefficient: noctanol/water	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 0,951 g/cm ³
Relative vapour density	: No data available

9.2 Other information

Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 219,36 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

Formation of peroxides possible.

Vapours may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Conditions to avoid : Warming.

Moisture.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents Oxygen

10.6 Hazardous decomposition products

Peroxides

In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Tetrahydrofuran:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.160 mg/l

End point: mortality

Exposure time: 96 h

Test Type: flow-through test

Analytical monitoring: yes

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.485 mg/l

End point: mortality Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

Toxicity to fish (Chronic toxicity)

NOEC: 216 mg/l

End point: Growth inhibition Exposure time: 33 d

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

Analytical monitoring: yes

Remarks: (ECHA)

12.2 Persistence and degradability

Components:

Tetrahydrofuran:

Biodegradability : Test Type: aerobic Inoculum: activated sludge

Concentration: 2 mg/l

Result: Not readily biodegradable.

Biodegradation: 39 %

Related to: Biochemical oxygen demand

Exposure time: 28 d

Method: OECD Test Guideline 301D

12.3 Bioaccumulative potential

Components:

Tetrahydrofuran:

Partition coefficient: octanol/water

log Pow: 0,45 (25 °C)

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components

considered to be either persistent, bioaccumulative

and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Tetrahydrofuran:

Assessment : Substance does not meet the criteria for PBT or vPvB

according to Regulation (EC) No 1907/2006, Annex XIII.

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12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR

: UN 2924

IMDG

: UN 2924

IATA

: UN 2924

14.2 UN proper shipping name

ADR

: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(Tetrahydrofuran)

IMDG

: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(Tetrahydrofuran)

IATA

: Flammable liquid, corrosive, n.o.s.
(Tetrahydrofuran)

14.3 Transport hazard class(es)

ADR

Class

: 3 8

IMDG

: 3 8

IATA

: 3 8

14.4 Packing group

ADR

Packing group

: II

Classification Code

: FC

Hazard Identification

: 338

Number

Labels

: 3 (8)

Tunnel restriction code

: (D/E)

IMDG

Packing group

: II

Labels

: 3 (8)

EmS Code

: F-E, S-C

IATA (Cargo)

Packing instruction (cargo aircraft)

: 363

Packing instruction (LQ)

: Y340

Packing group

: II

Labels

: Class 3 - Flammable liquids, Class 8 - Corrosive substances

IATA_P (Passenger)

Packing instruction (passenger aircraft)

: 352

Packing instruction (LQ)

: Y340

Packing group

: II

Labels

: Class 3 - Flammable liquids, Class 8 – Corrosive substances

14.5 Environmental hazards

ADR

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Environmentally : no

hazardous

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

Number on list 40

This substance/mixture shall not be used in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.

Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS P5c

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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