

SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-O-54882
Product Name	Isopropylmagnesium bromide d7 solution 0.75M in THF
CAS No.	114251-82-0
Category	Stable Isotope Reagent
Synonyms	bromo[1-(methyl-d3)ethyl-1,2,2,2-d4]-Magnesium
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email sales@clearsynth.com for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

2.2 Label Elements

Signal Word: Not available

Not available

Hazard Statement(s)

Code	Statement
Not available	Not available

Precautionary Statement(s)

Code	Statement
Not available	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Isopropylmagnesium bromide d7 solution 0.75M in THF
CAS Number : 114251-82-0
Molecular Formula : C3D7BrMg
Molecular Weight : 154.34
Parent Chemical : .
Synonyms : bromo[1-(methyl-d3)ethyl-1,2,2,2-d4]-Magnesium
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

General advice:

- Dangerous when wet; may react violently with water/moisture. Remove from exposure. Seek medical attention if symptoms occur or persist.
- Show this SDS to the physician in attendance.

Inhalation:

- Move person to fresh air. Keep at rest.
- If breathing is difficult, seek medical attention.

Skin contact:

- Immediately remove contaminated clothing and shoes.
- Brush off any dry material if present; then rinse skin cautiously with plenty of water.
- Seek medical attention for burns, irritation, or persistent symptoms.

Eye contact:

- Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
- Continue rinsing and seek immediate medical attention.

Ingestion:

- Rinse mouth. Do NOT induce vomiting.
- Never give anything by mouth to an unconscious person.
- Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Causes severe skin burns and eye damage: Not available.
- Respiratory irritation: Not available.
- Effects due to reaction with moisture (heat generation, corrosive/irritant products): Not available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- Special hazards: product may react with water/moisture; consider risk of delayed tissue damage from chemical burns.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

- Use dry powder extinguishing agent suitable for metal-organic reagents (Class D where appropriate), dry sand, or other inert dry extinguishing media.

Unsuitable extinguishing media:

- Do NOT use water, foam, or CO₂ on reactive organomagnesium reagents.

5.2 Special hazards arising from the substance or mixture

- Flammable solvent (THF) present; vapors may form explosive mixtures with air.
- Water-reactive reagent; contact with moisture may generate heat and flammable gases.
- Combustion may produce carbon oxides and hydrogen bromide/bromine-containing fumes: Not available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Fight fire from a safe distance; cool unopened containers with dry methods where feasible.
- Prevent fire-fighting runoff from entering drains/waterways.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

- Evacuate unnecessary personnel. Ensure adequate ventilation.
- Eliminate all ignition sources.
- Wear appropriate PPE: chemical-resistant gloves, protective clothing, eye/face protection.
- Avoid breathing vapors/mists.

6.2 Environmental precautions

- Prevent entry into drains, sewers, and waterways.
- Notify authorities if significant release occurs.

6.3 Methods and material for containment and cleaning up

- Do not allow contact with water.
- Contain spill with inert, dry absorbent (e.g., dry sand, inert mineral absorbent). Do not use wet absorbents.
- Collect into compatible, tightly closed containers for disposal.
- Residues may be quenched only by trained personnel using appropriate controlled procedures: details Not available.

6.4 Reference to other sections

- See Section 7 for handling and storage and Section 8 for exposure controls/personal protection.

SECTION-7: Handling and storage

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7.1 Precautions for safe handling

- Handle under inert atmosphere and dry conditions. Protect from moisture.
- Keep away from heat, sparks, open flames, and hot surfaces.
- Use non-sparking tools and explosion-proof equipment where applicable.
- Avoid contact with skin and eyes; avoid inhalation of vapors/mists.
- Do not allow contact with water, alcohols, acids, oxidizers, or other incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

- Store tightly closed in original container under inert gas in a cool, dry, well-ventilated place.
- Protect from moisture and air.
- Keep away from ignition sources.
- Incompatibilities: water/moisture, protic solvents, acids, oxidizing agents: further information Not available.

7.3 Specific end use(s)

- Stable isotope reagent / laboratory use only.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Occupational exposure limits for isopropylmagnesium bromide d7: Not available.
- Occupational exposure limits for tetrahydrofuran (THF): Not available.

8.2 Exposure controls

Appropriate engineering controls:

- Use only in a chemical fume hood or closed system.
- Provide local exhaust ventilation where vapors/mists may be generated.
- Use inert-atmosphere techniques (e.g., glovebox/Schlenk line) as appropriate.

Personal protective equipment (PPE):

Eye/face protection:

- Safety goggles and face shield.

Skin protection:

- Chemical-resistant gloves (material selection dependent on use conditions): Not available.
- Flame-resistant lab coat and chemical-resistant apron as needed.

Respiratory protection:

- If ventilation is inadequate, use appropriate respiratory protection: Not available.

Hygiene measures:

- Wash hands after handling. Remove contaminated clothing and wash before reuse.

Environmental exposure controls:

- Avoid release to the environment. Use secondary containment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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10.1 Reactivity

- Reacts with water/moisture; may be vigorous.

10.2 Chemical stability

- Stable under recommended storage conditions (dry, inert atmosphere): Not available.

10.3 Possibility of hazardous reactions

- Violent reaction with water/protic materials possible.

- May generate flammable gases upon contact with moisture: Not available.

10.4 Conditions to avoid

- Moisture, air exposure, heat, flames, sparks, and other ignition sources.

10.5 Incompatible materials

- Water, alcohols, acids, oxidizing agents, and other protic/oxidizing materials: further information Not available.

10.6 Hazardous decomposition products

- Carbon oxides and bromine-containing compounds (e.g., hydrogen bromide) under fire conditions: Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- 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: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Not available.

SECTION 12: Ecological information

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12.1 Toxicity

- No data available.

12.2 Persistence and degradability

- No data available.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in soil

- No data available.

12.5 Results of PBT and vPvB assessment

- Not available.

12.6 Endocrine disrupting properties

- Not available.

12.7 Other adverse effects

- No data available.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Water-reactive material: do not dispose to drain. Do not allow contact with water during disposal.
- Disposal by licensed chemical waste contractor recommended.
- Contaminated packaging: treat as hazardous waste.

SECTION 14: Transport information

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- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Keep away from moisture; protect from heat/ignition sources.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

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

- Regulatory listings (e.g., GHS/CLP, TSCA, REACH, DSL, IECSC, ENCS, KECI): Not available.

15.2 Chemical safety assessment

- Not available.

SECTION 16: Other information

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Product identifier:

- Product name: Isopropylmagnesium bromide d7 solution 0.75M in THF
- Catalog No.: CS-O-54882
- CAS No.: 114251-82-0
- Synonyms: bromo[1-(methyl-d3)ethyl-1,2,2,2-d4]-Magnesium
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Disclaimer:

- The information provided is believed to be accurate but is not exhaustive and is intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release.
- Not available indicates data not provided or not determined.

DISCLAIMER

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