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

Catalogue Number	CS-O-62586
Product Name	Butylmagnesium Bromide (ca.16% in Tetrahydrofuran, ca. 1mol/L)
CAS No.	693-03-8
Category	Reagents
Synonyms	Bromobutylmagnesium
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:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H225	Not available
H260	Not available
H302	Harmful if swallowed.
H314	Not available

H318	Causes serious eye damage.
H335	Not available
H371	Not available
H372	Not available

Precautionary Statement(s)

Code	Statement
P210	Not available
P223	Not available
P231+P232	Not available
P233	Not available
P240	Not available
P241	Not available
P242	Not available
P243	Not available
P260	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P301+P330+P331	Not available
P302+P335+P334	Not available
P302+P361+P354	Not available
P303+P361+P353	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	Not available
P308+P316	Not available

P316	Not available
P317	Not available
P319	Get medical help if you feel unwell.
P321	Specific treatment (see … on this label).
P330	Not available
P363	Not available
P370+P378	Not available
P402+P404	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Butylmagnesium Bromide (ca.16% in Tetrahydrofuran, ca. 1mol/L)
CAS Number : 693-03-8
Molecular Formula : C4H9BrMg
Molecular Weight : 161.32
Parent Chemical : -
Synonyms : Bromobutylmagnesium
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or are severe.
Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
Skin contact: Immediately wash with plenty of water. Do not attempt to neutralize on skin. Seek medical attention for burns/irritation.
Eye contact: Rinse cautiously with water for several minutes, holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical attention.
Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Corrosive/burn hazard: May cause severe skin burns and eye damage. May cause respiratory irritation. Harmful effects may be delayed.
Additional information: Not available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Chemical burns require prompt medical evaluation. Not available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media: Use dry powder suitable for metal/organometallic fires (Class D) where applicable. Use dry sand. Use alcohol-resistant foam, dry chemical, or carbon dioxide for surrounding fire as appropriate.
Unsuitable extinguishing media: Do not use water jet. Avoid water contact with product.

5.2 Special hazards arising from the substance or mixture
Flammable solvent present (tetrahydrofuran). Organomagnesium reagent may react violently with water/moisture and may ignite. Vapors may form explosive mixtures with air.
Hazardous combustion products: Carbon oxides. Hydrogen bromide/bromine-containing fumes may form. Magnesium oxides. Not available.

5.3 Advice for firefighters
Wear self-contained breathing apparatus and full protective gear. Fight fire from a safe distance. Cool exposed containers with water spray from a distance; avoid water contact with leaking material. Prevent runoff from entering drains.

5.4 Additional information
Not available.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Evacuate area. Eliminate all ignition sources. Provide adequate ventilation. Avoid breathing vapors/mist. Avoid contact with skin and eyes. Wear appropriate PPE (see Section 8).

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, surface water, or soil.

6.3 Methods and material for containment and cleaning up
Do not use water. Contain spill with dry inert absorbent (e.g., dry sand, vermiculite). Collect in a compatible, tightly closed container for disposal. Handle as moisture-sensitive and flammable waste. Decontamination method: Not available.

6.4 Reference to other sections
See Sections 7, 8, and 13.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Handle under inert atmosphere and dry conditions. Protect from moisture. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors/mist. Keep away from heat, sparks, open flames, and hot surfaces. Use explosion-proof equipment where appropriate. Ground/bond containers during transfer.

7.2 Conditions for safe storage, including any incompatibilities
Store tightly closed in original container under inert gas if applicable. Keep in a cool, dry, well-ventilated place. Protect from moisture and air. Keep away from oxidizers, acids, water, alcohols, and other protic materials. Storage temperature: Not available.

7.3 Specific end use(s)
Laboratory reagent. Not for food, drug, or household use.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits: Not available for this mixture. Component exposure limits (e.g., tetrahydrofuran): Not available.
Biological limit values: Not available.

8.2 Exposure controls
Engineering controls: Use only in a chemical fume hood or well-ventilated area. Use inert-atmosphere techniques as appropriate. Provide eyewash station and safety shower.
Personal protective equipment (PPE):
- Eye/face protection: Chemical safety goggles and face shield.
- Skin protection: Flame-resistant lab coat; chemical-resistant apron as needed.
- Hand protection: Wear appropriate chemical-resistant gloves. Glove material selection should consider permeation by tetrahydrofuran and reactivity of organomagnesium reagent. Specific glove type: Not available.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection. Specific type: Not available.
Hygiene measures: Do not eat, drink, or smoke when using this product. Wash hands after handling. Remove contaminated clothing and wash before reuse.

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

SECTION 10: Stability and reactivity

10.1 Reactivity
Moisture-sensitive, reactive organometallic reagent. Reacts with water and protic substances.

10.2 Chemical stability
Stable under recommended storage conditions. May degrade on exposure to air/moisture.

10.3 Possibility of hazardous reactions
May react violently with water, alcohols, acids, and other protic materials. May generate flammable gases. Not available.

10.4 Conditions to avoid
Heat, sparks, open flame, static discharge, moisture, air exposure, and incompatible materials.

10.5 Incompatible materials

Water, alcohols, acids, oxidizing agents, halogenated solvents (compatibility dependent), and other protic/oxidizing materials. Not available.

10.6 Hazardous decomposition products
Carbon oxides. Hydrogen bromide/bromine-containing fumes. Magnesium oxides. 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

SECTION 12: Ecological information

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
Not available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of contents/container in accordance with local/regional/national/international regulations.
This material is moisture-reactive and flammable; do not discharge to drains.
Do not mix with incompatible wastes. Keep container tightly closed.
Waste code: Not available.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number
Not available.

14.2 UN proper shipping name
Not available.

14.3 Transport hazard class(es)
Not available.

14.4 Packing group
Not available.

14.5 Environmental hazards
Not available.

14.6 Special precautions for user
Moisture-sensitive and flammable. Keep away from heat/ignition sources. Protect from moisture. Transport in tightly closed, compatible containers.

14.7 Maritime transport in bulk according to IMO instruments
Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulatory listings (e.g., GHS/CLP/OSHA/TSCA/REACH): Not available.

15.2 Chemical safety assessment
Not available.

SECTION 16: Other information

SECTION 16: Other information

Product name: Butylmagnesium Bromide (ca.16% in Tetrahydrofuran, ca. 1mol/L)
Catalog no.: CS-O-62586
CAS no.: 693-03-8
Synonyms: Bromobutylmagnesium

Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

Revision date: Not available.

Disclaimer: The information is believed to be accurate based on available data, but no warranty is expressed or implied. Users must determine suitability for their particular purpose and comply with applicable regulations.

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