Shanghai Aladdin Biochemical Technology Co., Ltd. No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-31 Print Date: 2024-02-07

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

1.1 Product identifiers

Product name	: tert-Butylmagnesium Chloride
Product Number	: B107835
Brand	: aladdin
CAS-No.	: 677-22-5

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

: Laboratory chemicals, Manufacture of substances.

Identified uses

1.3 Details of the supplier of the safety data sheet

: Shanghai Aladdin Biochemical Tech Co.,Ltd
: 36 Xinjinqiao Road, Shanghai
: 400-620-6333
: no data available

1.4 Emergency telephone number

Emergency Phone	: 0532-83889090
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger	
Hazard statement(s)		
H225	Highly Flammable liquid and vapor	
H261	In contact with water releases flammable gas	
H302	Harmful if swallowed	
H314	Causes severe skin burns and eye damage	
H336	May cause drowsiness or dizziness	
Precautionary statement(s)		
P210	Keep away from heat, hot surface, sparks, open flames and other ignition	
	sources No smoking.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P231+P232	Handle under inert gas/ Protect from moisture.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses if present and easy to do - continue rinsing.
P422	Store contents under

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms magnesium chloride	: Tert-butyl magnesium chloride; tert-butyl magnesium chloride; tert-butyl
Formula	: C4H9CIMg
Molecular weight	: 116.87
CAS No.	: 677-22-5
EC-NO.	: no data available

Component	Classification	Concentration
tert-ButyImagnesium Chloride		
	no data available	2.0 M in diethyl

ether

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately.Wash off with soap and plenty of water.Consult a physician. In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during If swallowed

Do NOT induce vomiting.Never give anything by mouth to an unconscious person.Rinse mouth with water.Consult a

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media no data available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas, silicon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate

personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.Keep in suitable, closed containers for
sor/>disposal.

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.Containers which are opened must be carefully resealed
and kept upright to prevent leakage.

7.3 Specific end use(s)

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no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.Wash hands before breaks and at the end of
sor/>workday.
sor/>
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Personal protective equipment

Eye/face protection

Tightly fitting safety goggles.Faceshield (8-inch minimum).Use equipment for eye protection tested and approved
under appropriate government standards such as NIOSH (US) or EN 166(EU).
br/>Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching
glove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in
accordance with applicable laws and good laboratory practices.Wash and dry hands.
Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the
concentration and amount of the dangerous substance at the specific workplace.
br/>Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose
combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls.If the
respirator is the sole means of protection, use a full-face supplied air respirator.Use respirators and components
tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
br/>

Control of environmental exposure no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	-40 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or	
explosive limits	no data available
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k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Bases, Alkali metals, Strong acids and strong bases, Strong oxidizing agents, Amines, Vinyl compounds, Aluminum, Magnesium

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas, silicon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity no data available Skin corrosion/irritation no data available

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> Serious eye damage/eye irritation no data available Respiratory or skin sensitisation no data available Germ cell mutagenicity no data available Carcinogenicity IARC: 2B - Group 2B: Possibly carcinogenic to humans (Methylene chloride)NTP: Reasonably anticipated to be a human carcinogen (Methylene chloride) Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information no data available

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

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

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Product

Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed professional waste
disposal service to dispose of this material.Dissolve or mix the material with a combustible solvent and burn in a
ohr/>chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging no data available

SECTION 14: Transport information

DOT (US)		
UN number: 3399	Packing group: I	Class: 4.3(3)
Proper shipping name:	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: No
ORGANOMETALLIC SUBSTANCE,	available	
LIQUID, WATER-REACTIVE,		
FLAMMABLE (Tetrahydrofuran, tert-		
Butylmagnesium chloride)		
Environmental Hazards: No		
IMDG		
UN number: 3399	Packing group: I	EMS-No: no data available
Proper shipping name: ORGANOMETA	LLIC SUBSTANCE, LIQUID, WATER-REAC	TIVE, FLAMMABLE (Tetrahydrofuran,
Butylmagnesium chloride)		
ΙΑΤΑ		
UN number: 3399	Packing group: I	Class: 4.3(3)
Proper shipping name: ORGANOMETA	LLIC SUBSTANCE, LIQUID, WATER-REAC	TIVE, FLAMMABLE (Tetrahydrofuran,
Butylmagnesium chloride)		

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

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