



TCI AMERICA

SAFETY DATA SHEET

Revision number: 1
Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Allylmagnesium Bromide (ca. 13% in Ethyl Ether, ca. 0.7mol/L)
Product code: A0963

Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
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Responsible department:
TCI America
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2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4]
WHMIS 2015: Eye Damage/Irritation [Category 1]
Toxic to Reproduction [Category 2]
Specific Target Organ Toxicity (Single Exposure) [Category 3]
Flammable Liquids [Category 1]
Substances and Mixtures which, in Contact with Water, Emit Flammable Gases [Category 1]
Skin Corrosion/Irritation [Category 1B]

Signal word: Danger!

Hazard Statement(s): Extremely flammable liquid and vapor
In contact with water releases flammable gases which may ignite spontaneously
Harmful if swallowed
Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s):
[Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Do not allow contact with water. Handle under inert gas. Protect from moisture. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

[Response]

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed or concerned: Get medical advice or attention. Brush off loose particles from skin. Immerse in cool water or wrap with wet bandages. In case of fire: Use dry chemical or dry sand to extinguish.

[Storage]

Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

[Disposal]

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:
[HNOC]

May be harmful if swallowed and enters airways.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|--------------------------|---|
| Substance/mixture: | Mixture |
| Components: | Allylmagnesium Bromide (ca. 13% in Ethyl Ether, ca. 0.7mol/L) |
| Percent: | |
| CAS RN: | 1730-25-2 |
| Molecular Weight: | 145.28 |
| Chemical Formula: | C ₃ H ₅ BrMg |
| Hazardous ingredient(s): | Allylmagnesium Bromide (13%) 1730-25-2 Ethyl Ether (87%) 60-29-7 |

4. FIRST-AID MEASURES

Description of first aid measures

| | |
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| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. |
| Skin contact: | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. |
| Eye contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. |
| Ingestion: | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. |

Symptoms/effects:

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|----------|--|
| Acute: | Dizziness. Pain. Redness. Drowsiness. |
| Delayed: | May have effects on the respiratory tract. |

Indication of any immediate medical attention:

Not available.

Notes to physician:

No data available

5. FIRE-FIGHTING MEASURES

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|---|---|
| Suitable extinguishing media: | Dry chemical, dry sand. |
| Unsuitable extinguishing media: | Water |
| Specific hazards arising from the chemical: | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. |
| Hazardous combustion products: | These products include: Carbon oxides Halogenated compounds Metallic oxides |
| Other specific hazards: | Closed containers may explode from heat of a fire. |
| Advice for firefighters: | Wear self-contained breathing apparatus if possible. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures: | Use extra personal protective equipment (self-contained breathing apparatus). 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: | Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |
| Prevention of secondary hazards: | Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment. Since there is a possibility of igniting behind when removal of a leakage thing is imperfect, it is careful enough. |

7. HANDLING AND STORAGE

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|---|--|
| Precautions for safe handling: | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact! Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Use well-dried equipment. Handle under inert gas. Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as paper, rags, etc. |
| Conditions for safe storage, including any incompatibilities | |
| Storage conditions: | Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive |
| Packaging material: | Comply with laws. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Exposure limits: | (Ethyl Ether) ACGIH TLV(TWA):400 ppm ACGIH TLV(STEL):500 ppm OSHA PEL(TWA):400 ppm |
| Appropriate engineering controls: | Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath. |
| Personal protective equipment | |
| Respiratory protection: | Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: | Impervious gloves. |
| Eye protection: | Safety goggles. A face-shield, if the situation requires. |
| Skin and body protection: | Impervious protective clothing. Protective boots, if the situation requires. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--------------------------------------|---|---|--------------------|
| Physical state (20°C): | Liquid | | |
| Odour: | No data available | | |
| Odour threshold: | No data available | | |
| Odour threshold: | No data available | | |
| Melting point/freezing point: | No data available (Ethyl Ether) -116°C | pH: | No data available |
| Boiling point/range: | No data available (Ethyl Ether) 35°C | Vapour pressure: | No data available. |
| Decomposition temperature: | No data available | Vapour density: | No data available |
| Relative density: | 0.83 | Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available | Evaporation rate(Butyl Acetate=1): | No data available |
| Log Pow: | No data available | | |
| Log Pow: | (Ethyl Ether) 0.89 | | |
| Flash point: | No data available (Ethyl Ether) -45°C | Autoignition temperature: | No data available |
| Flammability(solid, gas): | No data available | Flammability or explosive limits: | |
| | | Lower: | No data available |
| | | Upper: | No data available |
| Solubility(ies): | | | |
| [Water] | No data available | | |
| [Other solvents] | No data available | | |

10. STABILITY AND REACTIVITY

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|--|---|
| Reactivity: | No data available |
| Chemical stability: | May form explosive peroxides. |
| Possibility of hazardous reactions: | May spontaneously ignite or release flammable gases when in contact with water. |
| Conditions to avoid: | Spark, Open flame, Static discharge, Air, Moisture |
| Incompatible materials: | Oxidizing agents, Acids, Water, Alcohols |
| Hazardous decomposition products: | Carbon dioxide, Carbon monoxide, Hydrogen bromide |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
No data available

Skin corrosion/irritation:
No data available

Serious eye damage/irritation:
No data available

Respiratory or skin sensitization:
No data available

Germ cell mutagenicity:
No data available

Carcinogenicity:
No data available

IARC: No data available

NTP: No data available

OSHA: No data available

Reproductive toxicity:
No data available

Aspiration hazard: May be harmful if swallowed and enters airways.
Target organ(s):
May cause respiratory irritation.
May cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION

| | |
|---|-------------------|
| Ecotoxicity: | |
| Fish: | No data available |
| Crustacea: | No data available |
| Algae: | No data available |
| Persistence / degradability: | No data available |
| Bioaccumulative potential(BCF): | No data available |
| Mobility in soil | |
| Log Pow: | No data available |
| Soil adsorption (Koc): | No data available |
| Henry's Law (PaM³/mol): | No data available |

13. DISPOSAL CONSIDERATIONS

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| Disposal of product: | Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. |
| Disposal of container: | Dispose of as unused product. Do not re-use empty containers. |
| Other considerations: | Observe all federal, state and local regulations when disposing of the substance. |

14. TRANSPORT INFORMATION**DOT (US)**

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|-----------------------------|---|---|--|----------------------------|
| UN number: UN3399 | Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable | Class or Division: 4.3 Dangerous when wet material (water reactive) | Subrisk(s): 3 Flammable liquid | Packing Group: I |
|-----------------------------|---|---|--|----------------------------|

IATA

| | | | | |
|-----------------------------|---|---|--|----------------------------|
| UN number: UN3399 | Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable | Class or Division: 4.3 Dangerous when wet material (water reactive) | Subrisk(s): 3 Flammable liquid | Packing Group: I |
|-----------------------------|---|---|--|----------------------------|

IMDG

| | | | | |
|------------------------------|---|---|--|----------------------------|
| UN numbrer: UN3399 | Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable | Class or Division: 4.3 Dangerous when wet material (water reactive) | Subrisk(s): 3 Flammable liquid | Packing Group: I |
|------------------------------|---|---|--|----------------------------|

Air Transport: Cargo Aircraft Only.
EmS number: F-G, S-N

15. REGULATORY INFORMATION**Toxic Substance Control Act (TSCA 8b.):**

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations**CERCLA Hazardous substance and Reportable Quantity:**

SARA 313: Not Listed
SARA 302: Not Listed

State Regulations**State Right-to-Know**

Massachusetts: Not Listed
New Jersey: Not Listed
Pennsylvania: Not Listed

California Proposition 65: Not Listed

Other Information**NFPA Rating:**

Health: 3
Flammability: 3
Instability: 2

HMIS Classification:

Health: 3
Flammability: 3
Physical: 2

International Inventories

EC-No: 217-046-4

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.