

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

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	PropyImagnesium Bromide (ca. 27% in Tetrahydrofuran, ca. 2mol/L) P0880		
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.		
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624	
2. HAZARD(S) IDENTIFICATION			
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Eye Damage/Irritation [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Flammable Liquids [Category 2] Substances and Mixtures which, in Contact with Water, Emit Flammable Gases [Category 1] Skin Corrosion/Irritation [Category 1B]		
Signal word:	Danger!		

Hazard Statement(s):

Highly 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 May cause damage to organs: Nervous System May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure: Liver Nervous System Kidney

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

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 mist, vapors or spray. 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.

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: Call a poison center or doctor. 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

[Disposal]closed. Store locked up.
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:None.

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Hazardous ingredient(s):	Mixture PropyImagnesium Bromide (ca. 27% in Tetrahydrofuran, ca. 2mol/L) 927-77-5 147.30 C ₃ H ₇ BrMg PropyImagnesium Bromide (27%) 927-77-5 Tetrahydrofuran (73%) 109-99-9
4. FIRST-AID MEASURES	
Description of first aid measures Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/obysician.

	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:	

May have effects on the respiratory tract.

Pain. Redness.

Indication of any immediate medical attention: Not available.

Notes to physician: No data available

Acute:

Delayed:

5. FIRE-FIGHTING MEASURES

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

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	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In
and cleaning up:	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	
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 surfacesNo 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 contact with skin, eyes and clothing. 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	
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 / PER	SONAL PROTECTION
Exposure limits:	(THF) ACGIH TLV(TWA):50 ppm (skin) ACGIH TLV(STEL):100 ppm (skin) OSHA PEL(TWA):200 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

Physical state (20°C): Odour: Odor threshold: Odour threshold:	Liquid No data available No data available No data available		
Odour threshold:	NO data avaliable		
Melting point/freezing point:	No data available (THF) -108°C	pH:	No data available
Boiling point/range:	No data available (THF) 65°C	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density: Kinematic viscosity:	No data available No data available	Dynamic Viscosity:	No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Log Pow:	(THF) 0.46		
Flash point:	No data available (THF) -15°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):		oppo	
[Water]	No data available		
[Other solvents]	No data available		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. May spontaneously ignite or release flammable gases when in contact with water. Spark, Open flame, Static discharge, Moisture Oxidizing agents, Strong acids, Water, Alcohols 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				
Target organ(s): May cause damage to organs: New May cause respiratory irritation. Causes damage to organs through	-	exposure: Liver Nervous S	system Kidney	
12. ECOLOGICAL INFORMATION	J			
Ecotoxicity: Fish:	No data available			
Crustacea: Algae:	No data available No data available			
Persistence / degradability:	No data available			
Bioaccumulative potential(BCF): Mobility in soil	No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATION	S]
Disposal of product:		s if possible. It is the gener	ator's responsibility to	comply with Federal, State and
	Local rules and re	gulations. You may be able	e to dissolve or mix ma	terial with a combustible solvent

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Disposal of container: Other considerations:

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. Dispose of as unused product. Do not re-use empty containers.

Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) 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 UN3399 numb er:	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: EmS number:	Cargo Aircraft Only. 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 Hazard	ous substance a	nd Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	S		
State Right-to-Kr	now		
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	а	Not Listed	
California Propo	sition 65:	Not Listed	
Other Informatio	n		
NFPA Rating:			HMIS Classification:
Health:	3		Health:
Flammability:	3		Flammability:
Instability:	3		Physical:
International Invo	entories		
EC-No:		213-162-4	

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.

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