

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

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Benzylmagnesium Chloride (ca. 16% in Tetrahydrofuran, ca. 1mol/L) B1933	
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) [Catego Specific Target Organ Toxicity (Single Exposure) [Catego Specific Target Organ Toxicity (Repeated Exposure) [Cate Flammable Liquids [Category 2] Skin Corrosion/Irritation [Category 1B]	ry 3]

Signal word:

Hazard Statement(s):

Danger! Highly flammable liquid and vapor 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): Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly [Prevention] 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 [Response] 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. [Storage] 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:

None.

[HNOC]

3. COMPOSITION/INFORMATION	ON INGREDIENTS
Substance/mixture:	Mixture
Components:	Benzylmagnesium Chloride (ca. 16% in Tetrahydrofuran, ca. 1mol/L)
Percent:	
CAS RN:	6921-34-2
Molecular Weight:	150.89 C LL CIMA
Chemical Formula: Hazardous ingredient(s):	C7H7CIMg Benzylmagnesium Chloride (16%) 6921-34-2
nazardous ingredient(s).	Tetrahydrofuran (84%) 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/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:	
Acute:	Pain. Redness.
Delayed:	May have effects on the respiratory tract.
Indication of any immediate medical a	attention:
Not available.	
Notes to physician: No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, dry sand. Water
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
unennual.	

chemical:	
Hazardous combustion products:	These products include: Carbon oxides Halogenated compounds Metallic oxides
Other specific hazards:	WARNING: Highly toxic HCI gas is produced during combustion.

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.

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. 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	g 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 / 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.

Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Skin and body protection:

Physical state (20°C): Odour: Odor threshold: Odour threshold:	Liquid No data available No data available No data available		
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:	No data available	Dynamic Viscosity:	No data available
Kinematic 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): [Water] [Other solvents]	No data available 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. No special reactivity has been reported. Spark, Open flame, Static discharge, Moisture Oxidizing agents, Water, Alcohols, Amines, Oxygen Carbon dioxide, Carbon monoxide, Hydrogen chloride 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: Nervou May cause respiratory irritation. Causes damage to organs through pro	-	l exposure: Liver Nervous	s System Kidney		
12. ECOLOGICAL INFORMATION					
Ecotoxicity:					
Fish:	No data available	•			
Crustacea:	No data available	•			
Algae:	No data available				
Develotence / degradability	Ne dete evelleble				

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 (PaM ³ /mol):	No data available

13. DISPOSAL CONSIDERATIONS 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) UN number: I	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
	lammable liquids, corrosive, n.o.s	3 Flammable liquid	8 Corrosive material	
ΑΤΑ				
	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2924 F	Flammable liquid, corrosive, n.o.s	3 Flammable liquid	8 Corrosive material	II .
MDG				
	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
	Flammable liquid, corrosive, n.o.s	3 Flammable liquid	8 Corrosive material	II
er:				
EmS number:	F-E, S-C			
15. REGULATORY	INFORMATION			
oxic Substance Con	trol Act (TSCA 8b.):			
This product is ON the	EPA Toxic Substances Control Act (T	SCA) inventory.		
US Federal Regulatio	ne			
	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 Propositio	n 65: Not Listed			
Other Information				
NFPA Rating:		HMIS Classification:		
Health: 3		Health:	3	
Flammability: 3		Flammability:	3	
Instability: 2		Physical:	2	
nternational Inventor	ies			

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

Canada: NDSL EC-No:

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.

On NDSL

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