

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

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Lithium Chloride (2.3% in Tetrahydrofuran, ca. 0.5mol/L) L0222		
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] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] 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]		
Signal word:	Danger!		
Hazard Statement(s):	Highly flammable liquid and vapor Harmful if swallowed Causes skin irritation Causes serious eye irritation 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]

[Storage] [Disposal]

May form explosive peroxides.

Keep away from heat, sparks, open flames and hot surfaces. – No smoking. 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, eye protection.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Call a poison center or doctor. Store in a well-ventilated place. Keep container tightly 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.).

[HNOC]

3. COMPOSITION/INFORMATION O	N INGREDIENTS		
Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula:	Mixture Lithium Chloride (2.3% in Tetrahydrofuran, ca. 0.5mol/L) 7447-41-8 42.39 LiCl		
4. FIRST-AID MEASURES			
Description of first aid measures Inhalation: Skin contact: Eye contact: Ingestion:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Rinse mouth.		
Symptoms/effects: Acute: Delayed:	Redness. May have effects on the respiratory tract.		
Indication of any immediate medical atte Not available. Notes to physician: No data available	ention:		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.		
Hazardous combustion products: Other specific hazards:	These products include: Halogenated compounds Metallic oxides WARNING: Highly toxic HCI gas is produced during combustion.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	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. Prevent product from entering drains. 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. 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. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.		
Conditions for safe storage, including a Storage conditions: Packaging material:			

8. EXPOSURE CONTROLS / PERSONAL 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): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Slightly pale Characteristic No data available No data available	9 yellow	
Melting point/freezing point: No data available pH: No data available (THF) -108°C No No	Melting point/freezing point:		pH:	No data available
Boiling point/range: No data available Vapour pressure: No data available. (THF) 65°C	Boiling point/range:		Vapour pressure:	No data available.
Decomposition temperature: No data available Vapour density: No data available	Decomposition temperature:	No data available	Vapour density:	No data available
Relative density: 0.90 Dynamic Viscosity: No data available	Relative density:	0.90	Dynamic Viscosity:	No data available
Kinematic viscosity: No data available	Kinematic viscosity:	No data available		
Log Pow: No data available Evaporation rate(Butyl No data available Acetate=1): No data available No data available		No data available	• • • •	No data available
Log Pow: (THF) 0.46	Log Pow:	(THF) 0.46	,	
Flash point: No data available Autoignition temperature: No data available (THF) -15°C No data available No data available No data available	Flash point:		Autoignition temperature:	No data available
Flammability(solid, gas): No data available Flammability or explosive limits: Lower: No data available	Flammability(solid, gas):	No data available	• •	No data available
Upper: No data available			Upper:	No data available
Solubility(ies):	Solubility(ies):			
[Water] No data available		No data available		
[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 May form explosive peroxides. No special reactivity has been reported. Spark, Open flame, Static discharge, Air Oxidizing agents, Strong acids, Strong bases, Metal halides Carbon monoxide, carbon dioxide etc 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: Nerv May cause respiratory irritation. Causes damage to organs through p		exposure: Liver Nervous S	System Kidney		
12. ECOLOGICAL INFORMATION					
Ecotoxicity:					
Fish:	No data available				
Crustacea:	No data available				
Algae:	No data available				
Persistence / degradability:	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 (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. Dispose of as unused product. Do not re-use empty containers. **Disposal of container:** Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

14. INANJI ONI				
DOT (US) UN number: UN2056	Proper Shipping Na r Tetrahydrofuran	me:	Class or Division: 3 Flammable liquid	Packing Group: II
IATA UN number: UN2056	Proper Shipping Na Tetrahydrofuran	me:	Class or Division: 3 Flammable liquid	Packing Group: II
IMDG UN UN2056 numb er:	Proper Shipping Na r Tetrahydrofuran	me:	Class or Division: 3 Flammable liquid	Packing Group: II
EmS number:F-E, S-DReportable Quantitiy:1000 Pounds (Kilograms)	
15. REGULATOR	RY INFORMATION			
•				
Toxic Substance C	ontrol Act (TSCA 8b.):	and Control Act (TS)	CA) inventory	
This product is ON	the EPA Toxic Substand	ces Control Act (150	JA) Inventory.	
US Federal Regula				
	is substance and Repo			
SARA 313: SARA 302:		Not Listed Not Listed		
JARA JUZ.		NOT LISTED		
State Regulations				
State Right-to-Kno				
Massachusetts	5	Not Listed		
New Jersey Pennsylvania		Not Listed Not Listed		
California Proposit	ion 65:	Not Listed		
Other Information				
NFPA Rating:	0		HMIS Classification:	
	2 3		Health: Flammability:	2 3
	0		Physical:	0
	-		,	-
International Inven	tories			
Canada: DSL		On DSL		
EC-No:		231-212-3		
16. OTHER INFO	RMATION			

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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.