

Houghton Chemical Corporation

Safety Data Sheet



Lithium Chloride Solution

Section 1 - Identification			
Manufacturer Address	Houghton Chemical Corporation 52 Cambridge Street, Allston, MA 02134 1-617-254-1010 or 1-800-777-2466		
Emergency Telephone	CHEMTREC: 1-800-424-9300		
Chemical Name & Synonyms	LiCl(aq)		
Chemical Family	Aqueous Solution of salt.		
Recommended Use	Quantitative Tracer Solution		
Restrictions on Use	Use only as directed in approved applications.		
Section 2 – Hazard(s) Identification			
Hazard Classification	Eye irritation: Category 2B.		
Signal Word	Warning		
Hazard Statement	Causes eye irritation.		
Pictogram Description	GHS: NONE		
Precautionary Statement	Precautionary Statements: Prevention: Wash hands and other contacted skin thoroughly after handling. Response: 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 attention. Storage: Disposal:		
Any other Hazard not otherwise classified	Not Applicable		
Section 3 – Composition and Information on Ingredients			
Chemical Name	Common name and synonyms	CAS #	% by weight
Lithium Chloride	N/A	7447-41-8	0-100
Water	N/A	7732-18-5	0-100
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
Section 4 – First aid Measures			
Symptoms of Exposure			
Acute	Not expected to present a significant hazard under anticipated conditions of typical use.		
Delayed	Not expected to present a significant hazard under anticipated conditions of typical use.		
Inhalation	No Data Available		
Skin	Causes mild skin irritation		
Eye Contact	Causes eye irritation.		
Ingestion	No Data Available		
First Aid Instructions			
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.		
Skin	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.		
Eye Contact	Rinse the eye with water immediately. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.		
Ingestion	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth thoroughly. If vomiting occurs, and the victim is conscious, give water to the victim to further dilute the chemical. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Get medical attention if any discomfort continues.		
Other	Advice to Doctor/Physician and Hospital Personnel: treat symptomatically.		

Section 5 – Fire Fighting Measures	
Suitable Extinguishing Material	Water spray, dry chemical, foam or carbon dioxide.
Unsuitable Extinguishing Material	Do not use a heavy water stream.
Hazards from Combustion	No data available.
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.
Section 6 – Accidental Release Measures	
Use of personal precautions	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment.
Protective equipment to prevent the contamination of skin, eyes, and clothing.	Equip cleanup crew with proper protection. Ventilate the area.
Methods and materials used for containment	Collect liquid in an appropriate container or absorb with inert material and place in a chemical waste container.
Cleanup procedures	Should not be released into the environment. Stop leak if possible. Do not flush to sewer. Comply with all federal, state, and local regulations.
Section 7 – Handling and Storage	
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wear appropriate personal protective equipment when handling this product. Do not get in eyes or on skin.
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.	Store at room temperature in original container. Keep tightly closed. Avoid freezing.
Section 8 – Exposure Controls/Personal Protection	
OSHA Permissible Exposure Limits (PELs)	N/A
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	N/A
Other Exposure Limits	N/A
Engineering Control	Ensure adequate ventilation.
Individual Protection Measures	Wear eye & face protection and protective gloves & clothing.
Section 9 – Physical and Chemical and Chemical Properties	
Appearance (physical state, color, etc.)	Clear, water-white liquid.
Upper/lower flammability or explosive limits	No Data Available
Odor	None
Vapor pressure	No Data Available
Odor threshold	No data available.
Vapor density (air = 1)	No Data Available
pH	6
Relative density	1
Freezing point (as 50%)	32
Solubility(ies)	Miscible in water
Initial boiling point and boiling range	212
Flash point	N/A
Evaporation rate (Butyl Acetate = 1)	Similar to Water
Flammability (solid, gas)	Not Flammable
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature; and	No Data Available
Viscosity	No Data Available
Section 10 – Stability and Reactivity	
Reactivity	Stable under normal conditions of use and storage.
Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Avoid mixing with incompatible materials.
Incompatible Materials	Strong oxidizing agents.
Decomposition Products	No Data Available.

Section 11 – Toxicological Information					
Likely Routes of Exposure			Eyes / Skin / Ingestion / Inhalation		
	Effects from Short Term Exposure		Effects from Long Term Exposure		
Delayed Effects	Causes mild skin irritation. Causes eye irritation.		No data available		
Immediate Effects	Causes mild skin irritation. Causes eye irritation.		No data available.		
Chronic Effects	No data available.		No data available.		
The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose.			No data available.		
Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.			Irritation to skin and eyes.		
Listed in the National Toxicology Program (NTP) Report on Carcinogens?	Not listed.	Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs?	Not listed.	Found to be a potential carcinogen by OSHA?	Not listed.
Section 12 – Ecological Information					
Ecotoxicity	No Data Available				
Persistence and Degradability	No Data Available				
Bioaccumulation	No Data Available				
Mobility in Soil	No Data Available				
Other Adverse Effects	No Data Available				
Section 13 – Disposal Considerations					
Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options					
Section 14 – Transport Information					
Is product DOT regulated in Non-Bulk packaging?				No	
DOT BULK					
UN number				Not Regulated	
UN proper shipping name				Not Regulated	
Transport hazard class(es)				Not Regulated	
Packing group number				Not Regulated	
Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))				Not Regulated	
Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code))				Not Regulated	
Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises				Not Applicable	
Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)					
Safety Regulations		OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
Health Regulations		No data available			
Environmental Regulations		SARA 313: This product does not contain a toxic chemical in excess of the applicable de minimis concentration.			

SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312		Not Listed.			
HMIS	Blue/Health	1				
	Red/Flammability	0				
	Orange/Physical Hazard	0				
	White/Personal Protection	B				
NFPA 0(no hazard) to 4(severe risk)	Health (Blue)	1				
	Flammability (Red)	0				
	Instability/Reactivity (Yellow)	0				
	Special (White)	0				
US Toxic Substance Control Act	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30					
CEPA – Domestic Substances List (DSL)	No data available					
Section 16 – Other Information						
The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/ user's responsibility to ensure that activities comply with all federal, state, provincial or local law.						
Product Dilutions Differentials						
Properties¹	60%	50%	40%	35%	30%	25%
Lithium Chloride Solution	N/A	0%	N/A	N/A	N/A	N/A
Performance Additives and Water	N/A	0%	N/A	N/A	N/A	N/A
Specific Gravity (15/15 ^o C 60/60 ^o F)	N/A	N/A	N/A	N/A	N/A	N/A
Reserve Alkalinity (min)	N/A	0	N/A	N/A	N/A	N/A
Freeze Point Max	N/A	32	N/A	N/A	N/A	N/A
Revision Date: 7/22/2016						