Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 10/01/2021

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Lithium Sulfuryl Chloride Metal Batteries with Gallium Electrolyte

Product Code: No other identifiers

Additional Information: This product is a sealed battery. The battery contains hazardous substances, which under normal conditions of use are not in contact with the user unless the battery is altered or there is a spill, leak, or other emergency. This Safety Data Sheet applies to the hazards of the internal contents of the battery, specifically the hazardous substances encased within it.

1.2. Intended Use of the Product

Lithium-based battery product

1.3. Name, Address, and Telephone of the Responsible Party

Company

Engineered Power

20, 3103 - 14th Avenue N.E. Calgary

Alberta, Canada T2A 7N6 Telephone: (403) 235-2584

1.4. Emergency Telephone Number

Emergency Number : ChemTel LLC

(800)255-3924 (North America) +1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

Note: Leaking cells pose health hazards: see Sections 4 and 11. Intentional abuse of cells or batteries increases the risk of harm or damage to the product, to the user, and to surrounding materials and personnel. Do not attempt to open sealed cells or batteries. Do not intentionally short-circuit cells or batteries. Do not expose these products to temperatures exceeding the maximum manufacturers rating. Do not dispose of cells/batteries in landfills. Please follow all manufacturer guidelines in the use, storage, and disposal of these products. Consult manufacturer in cases of questions involving specific product usage.

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

PHNOC 1

Water-react. 1	H260
Met. Corr. 1	H290
Acute Tox. 2	H330
(Inhalation:vapors)	
Skin Corr. 1B	H314
Eye Dam. 1	H318
Repr. 2	H361
STOT SE 2	H371
STOT SE 3	H335
STOT RE 2	H373

Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)











Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA): H260 - In contact with water releases flammable gases which may ignite spontaneously.

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

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H318 - Causes serious eve damage.

H330 - Fatal if inhaled.

H335 - May cause respiratory irritation.

H361 - Suspected of damaging fertility or the unborn child.

H371 - May cause damage to organs.

H373 - May cause damage to organs through prolonged or repeated exposure.

Reacts violently with water.

Precautionary Statements (GHS-US/CA): P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P223 - Do not allow contact with water.

P234 - Keep only in original container.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves, protective clothing, and eve protection.

P284 - [In case of inadequate ventilation] wear respiratory protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P335+P334 - IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor.

P314 - Get medical advice/attention if you feel unwell.

P320 - Specific treatment is urgent (see section 4 on this SDS).

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P390 - Absorb spillage to prevent material-damage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

Supplemental Information

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US/CA) 2.4.

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substance**

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Sulfuryl chloride	Sulphonyl chloride / Sulphuryl chloride / Sulphuryl dichloride / Sulfuric oxychloride / Sulfur chloride oxide / Sulfuryl dichloride / sulfuryl chloride	(CAS-No.) 7791-25-5	25 – 50	Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

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Gallium trichloride	Gallium chloride (GaCl3) / Gallium(III) chloride / Gallium chloride	(CAS-No.) 13450-90-3	10 – 25	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318
Lithium chloride	Lithium chloride (LiCl) / LITHIUM CHLORIDE / lithium chloride	(CAS-No.) 7447-41-8	5-10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 2, H371 STOT RE 2, H373
Lithium	Metallic lithium / Lithium metal / Lithium, metal / lithium	(CAS-No.) 7439-93-2	2.5 – 10	PHNOC 1 Water-react. 1, H260 Skin Corr. 1B, H314 Eye Dam. 1, H318 Comb. Dust

Full text of H- statements: see section 16

SECTION 4: FIRST AID MEASURES

Hazards only apply to leaking or damaged cells.

4.1. Description of First-aid Measures

General: The following first aid measures apply in case of exposure to the interior battery components, if the battery is damaged and exposure occurs. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: For exposure to battery contents: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Using proper respiratory protection, move the exposed person to fresh air at once. Immediately call a poison center, physician, or emergency medical service.

Skin Contact: For exposure to battery contents: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Get immediate medical advice/attention.

Eye Contact: For exposure to battery contents: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: For exposure to battery contents: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Exposure to battery contents may result in the following: May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Fatal if inhaled. Causes severe skin burns and eye damage.

Inhalation: Exposure to the internal contents of the battery may result in: Irritation of the respiratory tract and the other mucous membranes. Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. May be corrosive to the respiratory tract.

Skin Contact: Exposure to the internal contents of the battery may result in: Causes severe irritation which will progress to chemical burns

Eye Contact: Exposure to the internal contents of the battery may result in: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: Exposure to the internal contents of the battery may result in: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Exposure to the internal contents of the battery may result in: Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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^{*}Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Class D extinguishers should be used on Lithium Metal battery fires, if possible, as most other media will not work. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use extinguishing media containing water.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: For exposure to the internal contents of a lithium metal battery: Vigorously reacts with water to produce flammable gases which may ignite spontaneously and cause a fire or explosion. Vapors from a damaged battery may be flammable.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas. Reacts vigorously with water to emit flammable gases at a high rate of evolution, which could ignite spontaneously and cause an explosion.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. Reacts violently with water liberating highly flammable gases. May react exothermically with water releasing heat. Batteries are non-reactive under normal conditions of storage and use. If the internal contents are exposed, lithium metal batteries may react with incompatible materials such as adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Lithium oxides. Chlorine oxides. Corrosive vapors. HCl and Sulfur oxides.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Hazards only apply to leaking or damaged cells.

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Remove ignition sources.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill. Absorb spillage to prevent material damage. Use only non-sparking tools. Cautiously neutralize spilled solid using sodium bicarbonate. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Never disassemble a battery or bypass any safety device. Do not crush, pierce, short (+) and (-) battery terminals with conductive (i.e. metal) goods. Do not directly heat or solder. Do not throw into fire. Do not mix batteries of different types and brands. Do not open or damage enclosure, or battery cell as this could cause a potential exposure and release of hazardous materials. For exposure to internal contents: May be corrosive to metals. Keep away from any possible contact with water, because of violent reaction and possible flash fire. May release corrosive vapors.

Precautions for Safe Handling: Since this product is a sealed battery, normal handling hazards are minimal unless the battery is damaged or the internal contents are exposed. If the battery is damaged: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. For expsoure of internal contents: Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor, mist, gas). Protect from moisture. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Handle empty containers with care because they may still present a hazard if cell was damaged or leaking.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a cool, dry place. Keep away from moisture, extremely high or low temperatures, ignition sources, and incomaptible materials. Keep container tightly closed.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. May be corrosive to metals. Water, humidity.

7.3. Specific End Use(s)

Lithium-based battery product

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure to internal contents.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.











Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke. Do not breathe fume, gas, mist, vapors, or spray. Do not eat, drink or smoke when using this product

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid

Appearance : Metal container containing liquid and solid contents

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Odor Normally odorless, leaking devices may emit acrid, sulfurous or ethereal **Odor Threshold** Not available Not available **Evaporation Rate** Not available **Melting Point** Not available **Freezing Point** Not available **Boiling Point** Not available **Flash Point** Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available **Upper Flammable Limit** Not available Vapor Pressure Not available Relative Vapor Density at 20°C Not available **Relative Density** Not available **Specific Gravity** Not available Solubility Not available Partition Coefficient: N-Octanol/Water Not available Viscosity Not available

SECTION 10: STABILITY AND REACTIVITY

- **10.1. Reactivity:** For exposure of internal contents: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. Reacts violently with water liberating highly flammable gases. May react exothermically with water releasing heat. Batteries are non-reactive under normal conditions of storage and use.
- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3. Possibility of Hazardous Reactions:** For exposure of internal contents: Contact with water releases flammable gases which may ignite spontaneously.
- **10.4. Conditions to Avoid:** Do not heat, expose to fire, disassemble, short circuit, immerse in water, or abuse batteries. Keep away from moisture, water, ignition sources, direct sunlight, extremely high temperatures, incompatible materials. Sparks, heat, open flame and other sources of ignition.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. May be corrosive to metals. Water, humidity.
- **10.6. Hazardous Decomposition Products:** For undamaged cell: None expected under normal conditions of use. For damaged or leaking cell: Lithium oxides. Chlorine oxides. Corrosive vapors. HCl and Sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

***Hazards only apply to leaking or damaged cells. ***

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Fatal if inhaled.

LD50 and LC50 Data:

Lithium Sulfuryl Chloride Metal Batteries with Gallium Electrolyte	
ATE US/CA (dust, mist)	0.10 mg/l/4h

Skin Corrosion/Irritation: Causes severe skin burns. Eye Damage/Irritation: Causes serious eye damage. Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

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Specific Target Organ Toxicity (Single Exposure): May cause damage to organs. May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure to the internal contents of the battery may result in: Irritation of the respiratory tract and the other mucous membranes. Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Exposure to the internal contents of the battery may result in: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Exposure to the internal contents of the battery may result in: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Exposure to the internal contents of the battery may result in: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Exposure to the internal contents of the battery may result in: Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Lithium chloride (7447-41-8)	
LD50 Oral Rat	526 mg/kg
LD50 Dermal Rat	> 2000 mg/kg (No deaths)
LC50 Inhalation Rat	> 5.57 mg/l/4h
Gallium trichloride (13450-90-3)	
LD50 Oral Rat	4700 mg/kg
Sulfuryl chloride (7791-25-5)	
LC50 Inhalation Rat	0.878 mg/l/4h
LC50 Inhalation Rat	159 ppm/4h

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Lithium chloride (7447-41-8)	
LC50 Fish 1	158 mg/kg (Exposure time: 96 h - Species: Oncorhynchus mykiss [Static])
EC50 - Crustacea [1]	249 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
ErC50 algae	> 400 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [Static])
NOEC Chronic Fish	59.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
NOEC Chronic Crustacea	63.4 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Algae	25 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [Static])

12.2. Persistence and Degradability

	~1
Lithium Sulfuryl Chloride Metal Batter	es with Gallium Electrolyte
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Lithium Sulfuryl Chloride Metal Batteries with Gallium Electrolyte		
Bioaccumulative Potential	Not established.	
Lithium chloride (7447-41-8)		
BCF Fish 1	(no bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	-2.66	

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : LITHIUM METAL BATTERIES

Hazard Class : 9 **Identification Number** : UN3090 **Label Codes** : 9 **ERG Number** : 138



14.2. In Accordance with IMDG

Proper Shipping Name : LITHIUM METAL BATTERIES

Hazard Class : 9 **Identification Number** : UN3090 **Label Codes** : 9 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-I



14.3. In Accordance with IATA

Proper Shipping Name : LITHIUM METAL BATTERIES

Hazard Class : 9

Identification Number : UN3090 **Label Codes** : 9A **ERG Code (IATA)** : 12FZ



14.4. In Accordance with TDG

Proper Shipping Name : LITHIUM METAL BATTERIES

Hazard Class Identification Number : UN3090 **Label Codes** : 9



SECTION 15: REGULATORY INFORMATION

15.1. **US Federal Regulations**

Lithium Sulfuryl Chloride Metal Batteries with Gallium Electrolyte		
SARA Section 311/312 Hazard Classes	Physical hazard - Corrosive to metals	
	Health hazard - Specific target organ toxicity (single or repeated	
	exposure)	
	Health hazard - Reproductive toxicity	
	Physical hazard - In contact with water emits flammable gas	
	Health hazard - Acute toxicity (any route of exposure)	
	Health hazard - Serious eye damage or eye irritation	
	Health hazard - Skin corrosion or Irritation	
Lithium chloride (7447-41-8)		

Lithium chloride (7447-41-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Lithium (7439-93-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Gallium trichloride (13450-90-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the United States SARA Section 302

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SARA Section 302 Threshold Planning Quantity (TPQ)	500 – 10000 lb
Sulfuryl chloride (7791-25-5)	
Listed on the United States TSCA (Toxic Substances Control	Act) inventory - Status: Active

15.2. US State Regulations

Lithium (7439-93-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Gallium trichloride (13450-90-3)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Sulfuryl chloride (7791-25-5)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

15.3. Canadian Regulations

Lithium chloride (7447-41-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Lithium (7439-93-2)	
Listed on the Canadian DSL (Domestic Substances List)	

Gallium trichloride (13450-90-3)

Listed on the Canadian DSL (Domestic Substances List)

Sulfuryl chloride (7791-25-5)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest

Revision

: 10/01/2021

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Acute toxicity (inhalation) Category 2
Acute toxicity (inhalation:vapors) Category 2
Acute toxicity (oral) Category 4
Combustible Dust
Serious eye damage/eye irritation Category 1
Serious eye damage/eye irritation Category 2
Corrosive to metals Category 1
Physical hazard not otherwise classified, category 1
Reproductive toxicity Category 2
Skin corrosion/irritation Category 1B
Skin corrosion/irritation Category 2
Specific target organ toxicity (repeated exposure) Category 2
Specific target organ toxicity (single exposure) Category 2
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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Water-react. 1	Substances and mixtures which in contact with water emit flammable gases Category 1
H260	In contact with water releases flammable gases which may ignite spontaneously
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)

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