

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878
and Regulation (EC) No. 1272/2008

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Revision Number 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name LITHIUM CSC & PMX CELLS AND BATTERIES

Synonyms Hermetically-Sealed Lithium Sulfuryl Chloride Cells and Batteries

Synonyms None

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Battery

Uses advised against Do not short circuit or expose to temperatures higher than the maximum temperature rating specified by the manufacturer. Do not recharge, over charge or crush any cell or pack. Ensure cells and batteries are safely handled and stored. Review Section 7 completely before use

1.3. Details of the supplier of the safety data sheet

Manufacturer and Supplier

Electrochem Solutions
670 Paramount Drive
Raynham, MA 02767
T: 781-830-5800

For further information, please contact

E-mail address customersupport@electrochemsolutions.com

1.4. Emergency telephone number

Emergency telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

Emergency telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This product is not hazardous in supplied solid form. This product is an article which is a sealed battery and does not require an SDS unless ruptured. The hazards indicated are for a ruptured battery.

Acute toxicity - Inhalation (Vapours)	Category 2 - (H330)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)

Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	

2.2. Label elements

Contains Sulfuryl chloride, Lithium

**Signal word**

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage.

H330 - Fatal if inhaled.

H335 - May cause respiratory irritation.

EUH014 - Reacts violently with water

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dusts or mists.

P280 - Wear protective gloves/protective clothing and eye/face protection.

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

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

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

P310 - Immediately call a POISON CENTER or doctor.

P320 - Specific treatment is urgent (see supplemental first aid instructions on this label).

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

Unknown acute toxicity

12 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU Index No)	Classification according to	Specific concentration	M-Factor	M-Factor (long-term)
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		number		Regulation (EC) No. 1272/2008 [CLP]	limit (SCL)		
Sulfuryl chloride 7791-25-5	25-39	No data available	(016-016-00-6) 232-245-6	Skin Corr. 1B (H314) STOT SE 3 (H335) (EUH014)	-	-	-
Lithium 7439-93-2	1.5-5	No data available	(003-001-00-4) 231-102-5	Skin Corr. 1B (H314) Water-react. 1 (H260) (EUH014)	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Sulfuryl chloride 7791-25-5	No data available	No data available	No data available	0.8777	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Do not breathe dust. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.
Eye contact	Call a doctor or poison control centre immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	If skin irritation occurs: Get medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
Ingestion	Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.

Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not breathe vapour.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Burning sensation.

Effects of Exposure See Section 11 for additional Toxicological Information.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Use of water spray when fighting a lithium fire may be inefficient. However, copious amounts of water may be used to cool a battery fire and extinguish any surrounding combustible fires.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical The electrolyte will release toxic sulfur dioxide gas. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not breathe vapour.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up During a release, ensure the Personal Protection listed in Section 8 is worn. Neutralize any electrolyte contaminated surfaces with baking soda, soda lime or sodium bicarbonate. Transfer damaged battery and any clean up materials to a sealed container with a neutralizing material as stated above. Ensure the container is properly labeled.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Do not crush, pierce, short circuit (+) and (-) battery terminals with conductive (metal) goods. Do not directly heat or solder. Do not throw into fire. Do not mix batteries of different types and brands. Do not mix new and used batteries. Keep batteries in non-conductive (plastic) trays. Cells or batteries that have been dropped or experience mechanical shock should be isolated and monitored for approximately 5 days to identify a possible internal short circuit and resulting fire. Do not breathe vapour.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Do not store in high humidity environments. Never stack heavy objects on top of battery boxes. Keep batteries in original packaging until use and do not expose them to unnecessary or excessive handling. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from moisture. Store away from other materials.

Storage class (TRGS 510) LGK 6.1A.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Exposure Limits**

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Sulfuryl chloride 7791-25-5	-	TWA: 0.4 ppm TWA: 2 mg/m³ STEL: 0.9 ppm STEL: 5 mg/m³	-	-	-
Chemical name	Sweden		Switzerland		United Kingdom
Lithium 7439-93-2	Bindande KGV: 0.02 mg/m³		TWA: 0.2 mg/m³ STEL: 0.2 mg/m³		-

Biological occupational exposure limits

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Lithium 7439-93-2	-	-	-	50 µg/L - BAR (not fixed) urine	-

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Lithium 7439-93-2	-	12 mg/kg bw/day [4] [6]	4.2 mg/m ³ [4] [6]

Notes

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Lithium 7439-93-2	1.2 mg/kg bw/day [4] [6]	-	1.8 mg/m ³ [4] [6]

Notes

[4] Systemic health effects.
[6] Long term.

8.2. Exposure controls**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment**Eye/face protection**

None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, chemical splash goggles and a face shield are recommended. Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.

Hand protection

None required for normal handling of the finished product. If necessary to handle damaged

product where exposure to the electrolyte is a possibility, chemically resistant gloves are recommended. Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

Skin and body protection	None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, a chemically resistant apron is recommended. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapour.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid
Colour	No information available
Odour	None
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	N/A	Not applicable unless there is exposure to an electrolyte: Sulfuryl Chloride: - 54 °C
Initial boiling point and boiling range	N/A	Not applicable unless there is exposure to an electrolyte: Sulfuryl Chloride: 67 - 69.4 °C
Flammability	N/A	Not applicable unless there is exposure to an electrolyte
Flammability Limit in Air		Not applicable unless there is exposure to an electrolyte
Upper flammability or explosive limits	N/A	No data available
Lower flammability or explosive limits	N/A	No data available
Flash point	N/A	Not applicable unless there is exposure to an electrolyte
Autoignition temperature	N/A	Not applicable unless there is exposure to an electrolyte
Decomposition temperature		Not applicable unless there is exposure to an electrolyte
pH	N/A	Not applicable unless there is exposure to an electrolyte
pH (as aqueous solution)		No data available
Kinematic viscosity	N/A	Not applicable unless there is exposure to an electrolyte
Dynamic viscosity	N/A	Not applicable unless there is exposure to an electrolyte
Water solubility		Not applicable unless there is exposure to an electrolyte

Solubility(ies)	N/A	Not applicable unless there is exposure to an electrolyte
Partition coefficient	N/A	Not applicable unless there is exposure to an electrolyte
Vapour pressure	N/A	Not applicable unless there is exposure to an electrolyte: Sulfuryl Chloride: 148 hPa @ 20 °C Sulfuryl Chloride: 993 hPa @ 68 °C
Relative density	N/A	Not applicable unless there is exposure to an electrolyte: Sulfuryl Chloride: 1.66
Bulk density		No data available
Liquid Density		No data available
Relative vapour density	N/A	Not applicable unless there is exposure to an electrolyte
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties	Not applicable unless there is exposure to an electrolyte
Oxidising properties	Not applicable unless there is exposure to an electrolyte

9.2.2. Other safety characteristics

Evaporation rate	N/A Not applicable unless there is exposure to an electrolyte
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	None under normal use conditions.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal use conditions. In the event of a leak or rupture: electrolyte and lithium will react with water.
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10.4. Conditions to avoid

Conditions to avoid	Excessive heat. Exposure to air or moisture over prolonged periods.
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10.5. Incompatible materials

Incompatible materials	Under normal use, batteries are not incompatible. The electrolyte is incompatible with: Acids. Bases. Oxidising agent.
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10.6. Hazardous decomposition products

Hazardous decomposition products Lithium oxides. Sulfur dioxide. Hydrogen chloride. Bromine. Chlorine.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information	Exposure is not expected for product under normal conditions of use. In the event of an exposure to electrolyte the following toxicological information is provided:.
Inhalation	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Corrosive to rabbit skin (4hr). Causes burns.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness.
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Acute toxicity Fatal if inhaled.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (inhalation-vapour) 1.98 mg/l

Unknown acute toxicity

12 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuryl chloride	-	-	= 159 ppm (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye damage. Causes

burns.

Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Target organ effects	Eyes. Skin. Respiratory system. Gastrointestinal tract (GI). Kidney. Liver.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Avoid any release to waterways, groundwater, or any environmental media. Harmful effects due to pH shift are expected.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Lithium 7439-93-2	PBT assessment does not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Note: Intended for All lithium batteries:
Lithium cells and batteries must successfully pass the tests defined in "UN Manual of Tests and Criteria", Section 38.3 and may require they be manufactured under a Quality Management Program. Lithium Metal and Lithium Ion cells and batteries, when shipped by themselves (not in or with equipment) are forbidden as cargo on passenger aircraft and must be marked as "Cargo Air Only" if shipped by air (they must be marked "Cargo Air Only" for all modes of DOT transport). Lithium Ion cells and batteries, when shipped by themselves (not in or with equipment) by air must be shipped at or below 30% full charge. Note: Some regulations require a summary of test results and/or a copy of the Quality Management Programs be made available for Lithium cells and batteries. For specific transport information for all variations of BCX cells, please review the Product Data Sheet. This can be sent upon request. Please contact the manufacturer.

If packed in or with equipment use UN3091.

IMDG

14.1 UN number or ID number UN3090
14.2 UN proper shipping name LITHIUM METAL BATTERIES
14.3 Transport hazard class(es) 9
14.4 Packing group Not applicable
Description UN3090, LITHIUM METAL BATTERIES, 9
14.5 Environmental hazards Not applicable
14.6 Special Precautions for Users
Special Provisions 188, 230, 310, 376, 377, 384, 387
EmS-No. F-A, S-I
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number UN3090
14.2 UN proper shipping name LITHIUM METAL BATTERIES
14.3 Transport hazard class(es) 9

14.4 Packing group	Not applicable
Description	UN3090, LITHIUM METAL BATTERIES, 9
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	188, 230, 310, 376, 377, 387, 636
Classification code	M4

ADR

14.1 UN number or ID number	UN3090
14.2 UN proper shipping name	LITHIUM METAL BATTERIES
14.3 Transport hazard class(es)	9
14.4 Packing group	Not applicable
Description	UN3090, LITHIUM METAL BATTERIES, 9
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	188, 230, 310, 376, 377, 387, 636,
Classification code	M4
Tunnel restriction code	(E)

IATA

14.1 UN number or ID number	UN3090
14.2 UN proper shipping name	Lithium metal batteries
14.3 Transport hazard class(es)	9
14.4 Packing group	Not applicable
Description	UN3090, Lithium metal batteries, 9
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	A88, A99, A154, A164, A183, A201, A213, A334, A802
ERG Code	12FZ
Note:	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Germany**

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Sulfuryl chloride - 7791-25-5	75.	-
Lithium - 7439-93-2	75.	-

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

O1 - Substances or mixtures with hazard statement EUH014

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment**Chemical Safety Report**

No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH014 - Reacts violently with water

H260 - In contact with water releases flammable gases which may ignite spontaneously

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

Legend

ATE: Acute Toxicity Estimate

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

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Skin designation

SCBA Self-contained breathing apparatus

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	On basis of test data
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method

STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Revision Note Updated format.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet