

Safety Data Sheet Date of issue: 3 May 2017

Version: 1.0

1. Identification			
roduct form	: Article		
rade name	: Lithium Thionyl Chloride Battery		
.2. Recommended use and restrict	ions on use		
Ise of the substance/mixture	: Energy source		
.3. Supplier			
OmniCel Batteries			
300 Schell Lane, Suite 301			
Phoenixville, PA 19460			
「 (610) 676-0591			
vww.omnicel.com			
.4. Emergency telephone number			
Emergency number	: (610) 676-0591		
SECTION 2: Hazard(s) identificat	ion		
The batteries are exempt articles and n		munication Stan	dard. This Safety Data Sheet is supp
ts users. Under normal use, the battery			
2.1. Classification of the substance	or mixture		
GHS-US classification			
GHS-US classification	ttery containing (Lithium) and (Thion	/I Chloride) mate	erials. For this reason, improper hand
GHS-US classification This is a high energy density sealed ba			
GHS-US classification	kage, overheating, explosion, fire, or		
GHS-US classification This is a high energy density sealed ba he battery could lead to distortion, leak	kage, overheating, explosion, fire, or ctly observe safety instructions.		
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First-aid measures after inhalation

advice (show the label where possible).Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

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: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
: 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.
: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
ts (acute and delayed)
: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. If a battery ruptures, may be harmful or fatal if inhaled in a confined area.
: Not expected to present a significant skin hazard under anticipated conditions of normal use. If a battery ruptures, causes severe skin burns.
: Not expected to present a significant skin hazard under anticipated conditions of normal use. If a battery ruptures, direct contact with the liquid or exposure to vapors or mists may cause tearing, redness, swelling, corneal damage and irreversible eye damage.
: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If battery ruptures, swallowing is harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.
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Immediate medical attention and special treatment, if necessary 4.3.

Treat symptomatically.

	5: Fire-fighting measu	
5.1. Suit	table (and unsuitable) exting	juishing media
Suitable exting	guishing media	In case of fire where lithium batteries are present, apply a smothering agent such as Lith-X, sand, dry ground dolomite, or soda ash. A smothering agent will extinguish burning lithium batteries.
Unsuitable ext	inguishing media	: Do not use water. Do not short circuit, recharge, over discharge (discharge below 0.0 Volts), puncture, crush or expose to temperatures above 150°C. Cell may leak, vent, or explode.
5.2. Spe	cific hazards arising from the	ne chemical
Fire hazard		 Battery may rupture due to pressure buildup when exposed to excessive heat and may be result in the release of corrosive materials. Hazardous combustion products: Sulfur oxides. Hydrogen chloride. Corrosive vapors.
Explosion haz	ard	 Battery may burst and release hazardous decomposition products when exposed to fire situation.
Reactivity		: Stable under normal conditions of use.
5.3. Spe	cial protective equipment a	nd precautions for fire-fighters
Firefighting ins	structions	: Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.
	ipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.

6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
Emergen	cy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protective	e equipment	: Equip cleanup crew with proper protection.
Emergen	cy procedures	: Ventilate area.
6.2.	Environmental precautions	
Prevent e	entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3.	Methods and material for containment	it and cleaning up
Methods	for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

g from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For disposal of residues refer to section 13 : Disposal considerations.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
Precautions for safe handling	Do not open the battery system. Do not crush or pierce the cells. Do not submit to excessive mechanical stress. Do not mix batteries of different types or mix new and old ones together. Do not expose the unit to water or condensation. Do not directly heat, solder or throw into fire. Such unsuitable use can cause leakage or spout vaporized electrolyte fumes and may cause fire or explosion.
lygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, include	ling any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	 Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Store in a dry place. Protect from moisture. Cells should be stored at room temperature, approx. 21°C (70°F)
ncompatible materials	: None known.

SECTION 8: Exposure controls/personal protection

8.1. Control par	rameters		
Lithium (7439-93-2)			
Not applicable			
Thionyl chloride (7	719-09-7)		
ACGIH	ACGIH Ceiling (ppm)	0.2 ppm	
NIOSH	NIOSH REL (ceiling) (mg/m ³)	5 mg/m³	
NIOSH	NIOSH REL (ceiling) (ppm)	1 ppm	
Aluminum chloride	e (7446-70-0)		
Not applicable			
Lithium chloride (7	447-41-8)		
Not applicable			

8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate ventilation. Keep the container hermetically sealed.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Not required for normal conditions of use. If a battery ruptures, impervious acid resistant gloves.

Eye protection:

Not required for normal conditions of use. If a battery ruptures, chemical goggles or face shield.

Skin and body protection:

Not required for normal conditions of use. If a battery ruptures, chemical resistant apron.

Respiratory protection:

Not required for normal conditions of use. If a battery ruptures, NIOSH/MSHA approved air purifying respirator should be used if operating conditions produce airborne concentrations that exceed exposure limits for any individual components. If conditions immediately dangerous to life or health exist, use NIOSH/MSHA self-contained breathing apparatus (SCBA).

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical ar	nd chemical properties	
Physical state	: Solid	
Appearance	: Hermetically sealed battery.	

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Color	: No data available
Odor	: Not applicable
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: In contact with water releases flammable gases which may ignite spontaneously.
Vapor pressure	: Thionyl Chloride: 92mm 20°C
Relative vapor density at 20 °C	: Thionyl Chloride: 4.1
Relative density	: No data available
Density	: Thionyl Chloride: 1.63
Solubility	: Water: Thionyl Chloride: Decomposes violently on contact with water
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur. In contact with water releases flammable gases which may ignite spontaneously.

10.4. Conditions to avoid

Heat sources. Extremely high or low temperatures. Protect from humidity.

10.5. Incompatible materials

None known under normal conditions of use.

10.6. Hazardous decomposition products

If battery ruptures or leaks: Sulfur oxides. Hydrogen chloride. Corrosive vapours.

SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Likely routes of exposure	: Ingestion; Inhalation; Skin and Eye contact
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified

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Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. If a battery ruptures, may be harmful or fatal if inhaled in a confined area.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use. If a battery ruptures, causes severe skin burns.
Symptoms/effects after eye contact	Not expected to present a significant skin hazard under anticipated conditions of normal use. If a battery ruptures, direct contact with the liquid or exposure to vapors or mists may cause tearing, redness, swelling, corneal damage and irreversible eye damage. Causes serious eye damage.
ymptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If battery ruptures, swallowing can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.
SECTION 12: Ecological information	
2.1. Toxicity	
Ecology - general	: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect or the environment.
2.2. Persistence and degradability	
Lithium Thionyl Chloride Battery	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Lithium Thionyl Chloride Battery	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to comply with applicable local, national and international regulation.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
n accordance with DOT	
Fransport document description	: UN3090 Lithium battery, 9, II
JN-No.(DOT)	: UN3090
Proper Shipping Name (DOT)	: Lithium battery
Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

: None

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: 185

DOT Packaging Exceptions (49 CFR 173.xxx)

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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: See A100
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 35 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 138
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport document description	: UN3090 LITHIUM BATTERIES, 9
UN-No. (TDG)	: UN3090
Proper Shipping Name (Transportation of Dangerous Goods)	: LITHIUM BATTERIES
TDG Primary Hazard Classes	: 9 - Class 9 - Miscellaneous Products, Substances or Organisms
Explosive Limit and Limited Quantity Index	: 0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 kg
Transport by sea	
Transport document description (IMDG)	: UN 3090 LITHIUM METAL BATTERIES, 9
UN-No. (IMDG)	: 3090
Proper Shipping Name (IMDG)	: LITHIUM METAL BATTERIES
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Limited quantities (IMDG)	: 0
Air transport	
Transport document description (IATA)	: UN 3090 Lithium metal batteries, 9
UN-No. (IATA)	: 3090
Proper Shipping Name (IATA)	: Lithium metal batteries
Class (IATA)	: 9 - Miscellaneous Dangerous Goods

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA
Lithium (7439-93-2)
Listed on the Canadian DSL (Domestic Substances List)
Thionyl chloride (7719-09-7)
Listed on the Canadian DSL (Domestic Substances List)
Aluminum chloride (7446-70-0)
Listed on the Canadian DSL (Domestic Substances List)
Lithium chloride (7447-41-8)
Listed on the Canadian DSL (Domestic Substances List)
EU-Regulations
Lithium (7439-93-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Thionyl chloride (7719-09-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Alumi	inum chloride (7446-70-0)
Listed	I on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Lithiu	ım chloride (7447-41-8)
Listed	on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
lationa	al regulations
Lithiu	ım (7439-93-2)
Listed Listed Listed Listed Listed	I on the AICS (Australian Inventory of Chemical Substances) I on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) I on the Korean ECL (Existing Chemicals List) I on NZIOC (New Zealand Inventory of Chemicals) I on PICCS (Philippines Inventory of Chemicals and Chemical Substances) I on INSQ (Mexican National Inventory of Chemical Substances) In Chemical Substance Inventory
Thion	ıyl chloride (7719-09-7)
Listed Listed Listed Listed Listed Japan Listed Listed	I on the AICS (Australian Inventory of Chemical Substances) I on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) I on the Japanese ENCS (Existing & New Chemical Substances) inventory I on the Japanese ISHL (Industrial Safety and Health Law) I on the Korean ECL (Existing Chemicals List) I on NZIoC (New Zealand Inventory of Chemicals) I on PICCS (Philippines Inventory of Chemicals and Chemical Substances) nese Poisonous and Deleterious Substances Control Law I on the Canadian IDL (Ingredient Disclosure List) I on INSQ (Mexican National Inventory of Chemical Substances) in Chemical Substance Inventory
Alumi	inum chloride (7446-70-0)
Listed Listed Listed Listed Listed Listed Listed Listed	I on the AICS (Australian Inventory of Chemical Substances) I on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) I on the Japanese ENCS (Existing & New Chemical Substances) inventory I on the Japanese ISHL (Industrial Safety and Health Law) I on the Korean ECL (Existing Chemicals List) I on NZIoC (New Zealand Inventory of Chemicals) I on PICCS (Philippines Inventory of Chemicals and Chemical Substances) I on the Canadian IDL (Ingredient Disclosure List) I on INSQ (Mexican National Inventory of Chemical Substances) I on Turkish inventory of chemical I on Turkish inventory of chemical I on Turkish inventory of chemical I on Chemical Substance Inventory
Lithiu	ım chloride (7447-41-8)
Listed Listed Listed Listed Listed Listed Listed	I on the AICS (Australian Inventory of Chemical Substances) I on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) I on the Japanese ENCS (Existing & New Chemical Substances) inventory I on the Japanese ISHL (Industrial Safety and Health Law) I on the Korean ECL (Existing Chemicals List) I on NZIOC (New Zealand Inventory of Chemicals) I on PICCS (Philippines Inventory of Chemicals and Chemical Substances) I on INSQ (Mexican National Inventory of Chemical Substances) I on Turkish inventory of chemical I on Turkish inventory of chemical In Chemical Substance Inventory

developmental and/or reproductive harm

SECTION 16: Other Information		
Revision date	:	3 May 2017
Other information		None.

SDS US (GHS HazCom 2012)

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