



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
3 <sub>0XY</sub> 0	Health Hazard 3 Fire Hazard 0	
<b>Ο</b> ,λ,	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Lithium perchlorate anhydrous		Catalog Number(s).	L1123, L1136
			CAS#	7791-03-9
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	SC8750000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Lithium perchlorate anhydrous
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Not available.		IN CASE OF EMERGENCY	
Chemical Name	Not available.		-	2 (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	LiClO4			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients					
			Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Lithium perchlorate anhydrous	7791-03-9				100
Toxicological Data Lithium perchlorate anhydrous					

#### Section 3. Hazards Identification

LD50: Not available. LC50: Not available.

on Ingredients

Potential Acute Health Effects Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

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Lithium perchlorat	e anhydrous Page Number: 2
Potential Chronic Health Effects	Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation.  CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  The substance is toxic to the nervous system.  Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Section 4. First Aid Measures		
<b>Eye Contact</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.	
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.	
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	Non-flammable.		
<b>Auto-Ignition Temperature</b>	Not applicable.		
Flash Points	Not applicable.		
Flammable Limits	Not applicable.		
<b>Products of Combustion</b>	Not available.		
Fire Hazards in Presence of Various Substances	Not applicable.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive to explosive in presence of combustible materials.		
Fire Fighting Media and Instructions	Not applicable.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		

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Section 6. Acc	cidental Release Measures	
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.	
Large Spill	Oxidizing material. Corrosive solid.  Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible paper, oil, clothing). Keep substance damp using water spray. Do not touch spilled material. to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call disposal.	Use water spray
Section 7. Handling and Storage		

Section 7. Handling and Storage		
Precautions	Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material Do not breathe dust. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes	
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room.	

Section 8. Exposure Controls/Personal Protection		
<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
<b>Personal Protection</b>	Splash goggles. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
<b>Exposure Limits</b>	Not available.	

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid. (Crystalline solid.)	Odor	Not available.
Molecular Weight	106.39 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
<b>Boiling Point</b>	Decomposes.		
Melting Point	236°C (456.8°F)		
Critical Temperature	Not available.		
Specific Gravity	2.429 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, methanol, diethyl ether, ac	etone.	
Solubility	Soluble in cold water, methanol, diethyl ether, ace	etone.	

Lithium perchlorate anhydrous	Page Number: 4
Continue 40 Ctability and Boostinity Data	

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
<b>Conditions of Instability</b>	Not available.	
Incompatibility with various substances	Not available.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information		
<b>Routes of Entry</b>	Eye contact. Inhalation. Ingestion.	
<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.	
<b>Chronic Effects on Humans</b>	The substance is toxic to the nervous system.	
Other Toxic Effects on Humans	Very hazardous in case of skin contact (corrosive, irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Human: passes through the placenta, excreted in maternal milk.	
Special Remarks on other Toxic Effects on Humans	Not available.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

## Lithium perchlorate anhydrous

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### Section 13. Disposal Considerations

Waste Disposal

# Section 14. Transport Information

**DOT Classification** CLASS 5.1: Oxidizing material.

Identification : Perchlorate, inorganic, n.o.s. : UN1481 PG: II

**Special Provisions for** 

Transport

Not available.

DOT (Pictograms)



### Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations TSCA 8(b) inventory: Lithium perchlorate anhydrous

California
Proposition 65

Proposition 6 Warnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications** 

WHMIS (Canada) CLASS C: Oxidizing material.

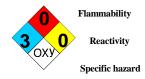
DSCL (EEC) R34- Causes burns.

HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	0
Reactivity	0
Personal Protection	(j)

National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



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# Lithium perchlorate anhydrous

ADR (Europe) (Pictograms)



### **Protective Equipment**



Gloves.



Lab coat.



Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

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Splash goggles.

# Section 16. Other Information MSDS Code L3510 References Not available. Other Special Not available. Considerations Validated by Sonia Owen on 8/11/2006. Verified by Sonia Owen. Printed 9/12/2006.

#### CALL (310) 516-8000

#### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.