



Material Safety Data Sheet

LITHIUM CHLORIDE ANHYDROUS



1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY			
PRODUCT NAME	Lithium chloride anhydrous		
RECOMMENDED USE &	Research use only		
RESTRICTIONS ON USE			
INFORMATION OF MANUFACTURER/IMPORTER/SUPPLIER			
COMPANY	Eurolab ®		
ADDRESS	54-58 High Street Edgware, Middlesex, HA8 7EJ, UK		
EMERGENCY PHONE			
E-MAIL ADDRESS			

2. HAZARDS	IDENTIFICATIO	N
GHS	Acute toxicity(Oral) : Category 4	
CLASSIFICATI	Acute toxicity(Dermal) : Category 4	
ON	Skin corrosion/irritation : Category 2	
	Serious eye damag	e/Eye irritation : Category 2
	PICTOGRAM	
	HAZARD	WARNING
	SYMBOL	WARNING
LABEL		Harmful if swallowed.
ELEMENTS	HAZARD	Harmful in contact with skin
	STATEMENTS	Causes skin irritation.
		Causes serious eye irritation.
		Wash thoroughly after handling.
	PRECAUTIONAR Y STATEMENTS	Do not eat, drink or smoke when using this product.
		Wear protective gloves/protective clothing/eye protection/face
		protection.
		IF SWALLOWED: Call a POISON CENTER or doctor/physician if



		you feel unwell.
		IF ON SKIN: Gently wash with plenty of soap and water.
		IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue
		rinsing.
		Call a POISON CENTER or doctor/physician if you feel unwell.
		Specific treatment (see on this label).
		Specific measures (see on this label).
		Rinse mouth.
		If skin irritation occurs: Get medical advice/attention.
		If eye irritation persists: Get medical advice/attention.
		Take off contaminated clothing and wash before reuse.
		Wash contaminated clothing before reuse.
		Dispose of this material and its container in accordance with
		local/regional/national/international regulation.
OTHER	Health	3
HAZARDS	Fire	0
(NFPA)	Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS			
CHEMILCAL IDENTITY	SYNONYMS	CAS NUMBER	ASSAY
Lithium chloride anhydrous	-	7447-41-8	Above 98%(EP)

4. FIRST AID MEASURES		
GENERAL ADVICE	Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.	
IN CASE OF EYE	Remove any contact lenses at once. Flush eyes well with a large amount of	



CONTACT	running water for at least 15 minutes. Assure adequate flushing by
	separating the eyelids with sterile fingers. Transport to a hospital
	immediately.
IN CASE OF SKIN	Remove contaminated clothes and shoes, rinse skin with plenty of water or
CONTACT	shower. Use soap to help assure removal. If irritation persists, transport to a
CONTACT	hospital immediately.
	Move victim to fresh air. If breathing is difficult, give oxygen. If breathing
IF INHALED	has stopped, administer artificial respiration. Maintain normal body
	temperature with a blanket. If irritation persists, transport to a hospital
	immediately.
IF SWALLOWED	Rinse mouth, give plenty of water to dilute the substance and induce
	vomiting(only in conscious persons !). Never give anything by mouth to an
	unconscious person. Transport to a hospital immediately.

5. FIRE FIGHTING MEASURES		
EXTINGUISHING MEDIA Carbon dioxide, dry chemical powder, foam, water		
SPECIFIC HAZARDS		
ARISING FROM THE	Toxic and irritating dust, fumes or smoke may be emitted.	
CHEMICAL		
SPECIAL PROTECTIVE		
EQUIPMENT AND	Firemen should wear normal protective equipment(full bunker gear)and	
PRECAUTIONS FOR	positive-pressure self-contained breathing apparatus.	
FIREFIGHTERS:		

6. ACCIDENTAL RELEASE MEASURES		
PERSONAL PRECAUTIONS	Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.	
ENVIRONMENTAL PRECAUTIONS	Prevent spills from entering sewers, watercourses or low areas.	
METHODS FOR	Do not touch spilled material without suitable protection. After material is	



CLEANING UP	completely picked up, wash the spill site with soap and water and ventilate	
	the area. Put all wastes in a plastic bag for disposal and seal it tightly.	
	Remove, clean, or dispose of contaminated clothing.	

7. HANDLING AND STORAG		
PRECAUTION FOR SAFE HANDLING	Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. This material is deliquescent.	
CONDITIONS FOR SAFE STORAGE	Store away from sunlight in well-ventilated dry place at room temperature. Keep container tightly closed.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
EXPOSURE STANDARDS	ACGIH	No data
APPROPRIATE	ENGINEERING	Handle in accordance with good industrial hygiene and safety
CONT	ROLS:	practice. Wash hands before breaks and at the end of workday.
INDIVIDUAL PROTECTION MEASURES	RESPIRATORY PROTECTION	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup Sigma-Aldrich - 270997 Page 4 of 7 to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
	EYE PROTECTION	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	SKIN PROTECTION	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of



	contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
BODY PROTECTION	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE	FORM	Solid
	COLOR	Colorless ~ white
ODO	OUR	No data
ODORODOUR TH	RESHOLD VALUE	No data
рН		No data
FREEZING POINT :		613 °C
INITIAL BOILING POINT		1360 C
FLASH POINT		No data
EVAPORATING RATE		No data
FLAMMABILITY(solid, gas)		No data
EXPLOSIVE LIMITS		No data
VAPOR PRESSURE		1 mmHg (547℃)
SOLUBILITY IN	WATER	84.5 g/100g (25℃)
VAPOR I	DENSITY	No data
RELATIVE	DENSITY	2.07
PARTITION COEFFICIENT: N-OCTANOL/WATER		-2.7
AUTOIGNITION TEMPERATURE		No data
DECOMPOSITION TEMPERATURE		No data
VISCOSITY		No data
MOLECULAR WEIGHT		42.39



10. STABILITY AND REACTIVITY

CHEMICAL STABILITY & POSSIBILITY	Stable under recommended storage conditions.	
OF HAZARDOUS REACTIONS		
CONDITIONS TO AVOID Sunlight, heat, moisture		
INCOMPATIBILE MATERIALS	Strong oxidizers, strong acids	
HAZARDOUS DECOMPOSITION	Hydrogen chloride gas and lithium compounds may be	
PRODUCTS	formed.	

11. TOXICOLOGICAL INFORMATION		
INFORMATION		
ON THE LIKELY		No data
ROUTES OF	No data	
EXPOSURES:		
		LD50(orl,rat): 526 ~ 840 mg/kg(IUCLID)
	ACUTE TOXICITY	LD50(skin,rabbit): 1488 mg/kg(Corporate Solution
		From Thomson Micromedex)
	SKIN CORROSION/	Rabbit; Causes skin irritation (IUCLID)
	SKIN IRRITATION	
	EYE DAMAGE/	Rabbit; Causes moderate eye irritation (IUCLID)
	EYE IRRITATION	Rabbit, Causes moderate eye imitation (IOCLID)
	RESPIRATORY	No data
HEALTH HAZARD	SENSITIZATION	
INFORMATION	SKIN SENSITIZATION	No data
		IARC: No data
	CARCINOGENICITY	OSHA: No data
		ACGIH: No data
		NTP: No data
		EU CLP: No data
	GERM CELL	In vitro Bacillus subtilis recombination assay : Negative
	MUTAGENICITY	Cytogenetic assay : Positive (IUCLID)
	ΤΟΧΙΟ ΤΟ	TDLo(ipr,rat): 1250mg/kg(7-11 D preg); Fertility - litter



REPRODUCTION	size(CRSBAW 167, 183, 1973)
	TDLo(orl,mouse): 66gm/kg(7 D male, 7 D pre, 23 D
	post); Effects on Newborn - growth statistics(GEPHDP
	24, 9, 1993)
SPECIFIC TARGET	
ORGAN TOXICITY	No data
SINGLE EXPOSURE	
SPECIFIC TARGET	
ORGAN TOXICITY	No data
REPEATED EXPOSURE	
ASPIRATION HAZARD	No data

12. ECOLOGICAL INFORMATION		
	TO FISH	LC50(Fundulus heteroclitus) : 315 mg/L/96hr
ECOTOXICITY		(ECOTOX)
ECOTOXICITY	TO CRUSTACEA	EC50(Daphnia magna) : 1.2 mg/L/64hr (ECOTOX)
	TO OTHER AQUATIC LIFE	No data
PERSISTENCE/	PERSISTENCE	log Kow -2.7(ICSC)
DEGRADABILITY	DEGRADABILITY	No data
BIOACCUMULATION	ACCUMUKATION	No data
POTENTIAL	BIODEGRADABILITY	No data
MOBILITY IN SOIL		No data
OTHER ADVERSE EFFECTS		No data

13. DISPOSAL CONSIDERATION	
DISPOSAL METHODS	Use only licensed transporters and permitted facilities for waste disposal.
DISPOSAL CONSIDERATIONS	Dispose of this material and its container in accordance with local/regional/national/international regulation.



14. TRANSPORT INFORMATION

IATA		
UN NUMBER	No data	
UN PROPER SHIPPING NAME	No data	
TRANSPORT HAZARD CLASS	No data	
PACKING GROUP	No data	
MARINE POLLUTANT	No data	
SPECIAL PRECAUTIONS FOR USER		
IN CASE OF FIRE	No data	
IN CASE OF LEAK	No data	

15. REGULATORY INFORMATION		
Occupational Safety and Health Act		Not listed
Toxic Chemicals Control Act		Not listed
Safety Control of Dangerous Substance Act		Not listed
Wastes Control Act		Not listed
Persistent Organic F	Pollutants Control Act	Not listed
	OSHA	Not listed
	CERCLA	Not listed
	EPCRA302	Not listed
US	EPCRA304	Not listed
REGULATIONS	EPCRA313	Not listed
	ROTTERDAM CONVENTION	Not listed
	STOCKHOLM CONVENTION	Not listed
	MONTREAL PROTOCOL	Not listed
EU	CLASSIFICATION	No data
CLASSIFICATION	RISK PHRASES	No data
INFORMATION	SAFETY PHRASES	No data



16. OTHER INFORMATION		
ORIGINATED DATE	2012.01.01	
REVISION NUMBER AND DATE	Revision number: 0	
	Final revision data: 2012.01.01	
OTHER	The information in this MSDS is based on several references and	
	the present state of our knowledge. However, the MSDS dose not	
	always cover all information about product. The information in this	
	MSDS is only provision of information, and It does not represent	
	any guarantee of the properties of the product.	