# SAFETY DATA SHEET



Revision Date 06-Nov-2010

**Revision Number** 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Description:	
Cat No.	
Synonyms	

Lithium 211440000; 211440250; 211442500 Lithium Metal.; Lithium Element

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

 Details of the supplier of the safety data sheet

 Company

 Acros Organics BVBA

 Janssen Pharmaceuticalaan 3a

 2440 Geel, Belgium

 E-mail address
 begel.sdsdesk@thermofisher.com

 Emergency Telephone Number

 For information in the US, call: 800-ACROS-01

 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

# 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Substances/mixtures which, in contact with water, emit flammable gases.	Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

 For the full text of the R phrases mentioned in this Section, see Section 16

 Symbol(s)
 F - Highly flammable

 C - Corrosive

 R -phrase(s)
 R34 - Causes burns

 Risk Combination Phrases
 R14/15 - Reacts violently with water, liberating extremely flammable gases

# 2. HAZARDS IDENTIFICATION



Signal Word

#### **Hazard Statements**

H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H260 - In contact with water releases flammable gases which may ignite spontaneously
EUH014 - Reacts violently with water

Danger

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P280 - Wear eye protection/face protection
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/physician
P402 + P404 - Store in a dry place. Store in a closed container

### Other Hazards

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS
Lithium	EEC No. 231-	> 99	7439-93-2	R14/15	Skin Corr. 1B (H314)
	102-5			C;R34	Water-react. 1 (H260)

### For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

Description of first aid measures Eye Contact

Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Immediate medical attention is required				
Ingestion	Do not induce vomiting Never give anything by mouth to an unconscious person Drink plenty of water Call a physician immediately If possible drink milk afterwards				
Inhalation	Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Immediate medical attention is required				
Notes to Physician	Treat symptomatically				
5. FIRE-FIGHTING MEASURES					

### Extinguishing media Suitable Extinguishing Media

dry ground dolomite

#### **Extinguishing media which must not be used for safety reasons** Water Do not use halon type extinguisher Carbon dioxide (CO<sub>2</sub>)

### Special hazards arising from the substance or mixture

Contact with water liberates toxic gas Water reactive Pyrophoric: Spontaneously flammable in air Produce flammable gases on contact with water

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal

### 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Take precautionary measures against static discharges Use only in area provided with appropriate exhaust ventilation

#### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Store contents under argon Never allow product to get in contact with water during storage

#### Specific End Uses

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

8. EXPOSURE CONTROLS / PERSONAL PROTECTION							
Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.						
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) Exposure controls	No information available. No information available.						
Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas						
Eye Protection Hand Protection Skin and body protection Respiratory Protection	Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced						
Hygiene Measures Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.						

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor pH Boiling Point/Range Melting Point/Range Flash Point Water Solubility Specific Gravity Molecular Formula Molecular Weight Solid Silver odorless No information available. 1340°C / 2444°F 180°C / 356°F No information available. Reacts 0.530 Li 6.94

# **10. STABILITY AND REACTIVITY**

Reactivity Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions .

Hazardous polymerization does not occur. No information available.

Conditions to Avoid Temperatures above .?1°C, Exposure to air, Incompatible products, Exposure to moist air or water.

Incompatible Materials Organic materials, Acids, Halogens, oxygen, nitriles, Metals, Carbon dioxide (CO2). Hazardous Decomposition Products None under normal use

# **11. TOXICOLOGICAL INFORMATION**

#### Information on Toxicological Effects

Acute Toxicity Product Information	No acute toxicity information is available for this product
Component Information	
Chronic Toxicity Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Other Adverse Effects Endocrine Disruptor Information	No information available. No information available No information available. No information available. No information available. See actual entry in RTECS for complete information None known

### **12. ECOLOGICAL INFORMATION**

Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

 Persistence and degradability

 No information available

 Bioaccumulative potential

 No information available.

 Mobility in soil

 No information available.

 Results of PBT and vPvB assessment

 Other adverse effects

 No information available

### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods Waste from Residues / Unused Products Contaminated Packaging

Dispose of in accordance with local regulations

Empty containers should be taken for local recycling, recovery or waste disposal

### **14. TRANSPORT INFORMATION**

#### IMDG/IMO

14. TRANSPORT INFORMATION							
UN-No	1415						
Hazard Class	4.3						
Packing Group	I						
ADR							
UN-No	1415						
Hazard Class	4.3						
Packing Group	I						
ΙΑΤΑ							
UN-No	1415						
Hazard Class	4.3						
Packing Group							
0							

# 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Lithium	231-102-5	-		Х	Х	-	Х	-	Х	Х	KE-22543
											Х

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory Lists DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances CHINA - China Inventory of Existing Chemical Substances AICS - Inventory of Chemical Substances KECL - Existing and Evaluated Chemical Substances

### **Chemical Safety Assessment**

# **16. OTHER INFORMATION**

Text of R phrases mentioned in Section 2-3 R34 - Causes burns R14/15 - Reacts violently with water, liberating extremely flammable gases

Revision Date06-Nov-2010Revision SummaryNot applicableThis safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

# **16. OTHER INFORMATION**

### Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

### End of Safety Data Sheet