

SAFETY DATA SHEET

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Lithium Oxide, Li₂O

Revision 0
Revision date 18-Jun-2011

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Lithium Oxide, Li₂O
Company Linyi Gelon New Battery Materials Co.,Ltd
No 106 Shangcheng Road,Lanshan District,Linyi City,Shandong P.R.China

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Telephone +8605398157529

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Lithium Oxide, Li ₂ O	0 - 100%	12057-24-8	235-019-5	C;R34/41

3. HAZARDS IDENTIFICATION

Main hazards Causes burns.

Other hazards Irritant.

4. FIRST AID MEASURES

Skin contact SEVERE AND CORROSIVE. May cause irritation to skin. Wash off immediately with plenty of soap and water.

Eye contact SEVERE AND CORROSIVE. Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation SEVERE AND CORROSIVE. May cause irritation to mucous membranes. May cause irritation to respiratory system. Seek medical attention if irritation or symptoms persist. Supply fresh air.

Ingestion SEVERE AND CORROSIVE. Drink 1 to 2 glasses of water. If ingested, induce vomiting but only under medical supervision. May cause damage to liver and kidneys. May cause irritation to mucous membranes. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing media Use extinguishing media appropriate to the surrounding fire conditions.

Fire hazards May emit toxic fumes.

Protective equipment Full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
Environmental precautions	Do not allow material to be released into the environment without proper governmental permits.
Clean up methods	Clean the area using a vacuum cleaner. Transfer to suitable, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation of the working area. Self-contained breathing apparatus.
Storage	Keep container tightly closed and in a well-ventilated place.
Suitable packaging	Glass bottle.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hand protection	Chemical resistant gloves (PVC)
Eye protection	Face shield.
Protective equipment	Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Powder.
Colour	White.
Odour	Odourless.
Boiling point	1200.0°C
Relative density	2.013g
Water solubility	Water solubility.
Melting point	1700.0°C

10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to avoid	Will not polymerize.
Hazardous decomposition products	Lithium hydroxide, oxides of lithium and hydrogen.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

General information	Contact a licensed waste disposal company. Local and national regulations.
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14. TRANSPORT INFORMATION

ADR/RID

UN 1759	Packing group II
Class 8	Hazard ID 80
Proper Shipping Name	

CORROSIVE SOLID, N.O.S, .

IMDG

UN 1759	Packing group II
Class 8	Marine pollutant .
EmS Code F-A S-B	

IATA

UN 1759	Packing group II
Class 8	Subsidiary risk -
Packing Instruction 816 (Cargo)	Maximum quantity 50 kg
Packing Instruction 814 (Passenger)	Maximum quantity 15 kg

15. REGULATORY INFORMATION

Symbols C - Corrosive

Risk phrases R34 - Causes burns.

Safety phrases S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap and water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

Further information The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.