GHS Safety Data Sheet

SDS No. : LIR01GAEG Date Issued: 2017/10/03

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: $LiOC_2H_5$ **Lithium ethoxide**

Product number	Purity	Form
LIR03GB	99.9%(3N)	Solid

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
Phone: +81-49-284-1511 Fax: +81-49-284-1351
Emergency Phone : +81-49-284-1511

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Skin corrosive/ irritation : Category 1B Serious eye damage/ eye irritation : Category 1	No data available	Self-heating substances and mixtures : Category 1

GHS Label: F, R

Pictograms or symbols

Warning word: DANGER

Hazard information	Description of precaution
Self-heating; may catch fire Causes severe skin burns and eye damage Causes serious eye damage	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information :

In case of fire, the product may liberate toxic gases/ fume.

Contact with water liberates flammable organic vapor.

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name: Lithium ethoxide

Single Substance or Compound: Single substance

Chemical formula:	$LiOC_2H_5$
Composition:	100%
CAS #:	2388-07-0
RTECS#:	not listed
TSCA inventory :	not listed
EINECS#:	not listed

Section 4. First aid measures

Eye contact: Promptly rinse eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

Skin contact: Remove immediately all contaminated clothing. Wipe off the product immediately by tissue or soft cloth, etc. Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.

Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

Inhalation: Remove the exposed person immediately and provide fresh air.
Get medical attention.

Section 5. Fire fighting measures

Chemical Name	Flash Point	Autoignition Temprature	Explosion Level (Lower-Upper)	Vapour Pressure
$LiOC_2H_5$	ND	ND	ND	ND

ND:no date available

Extinguishing agents:

Carbon dioxide, Dry chemical powder, fog or alcohol-resistant form, dry sand.
DO NOT use a direct water stream.

Fire fighting: Flammable material. Burning material releases toxic organic fumes.
Remove containers to safe place if possible.
Use water spray to Cool down nearby structures and containers.
Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

Combustion products:

Burning material releases toxic organic fumes, toxic gases of carbon monoxide / carbon dioxide.

Section 6. Accidental release measures

Personal Precaution: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
Wear disposable coveralls and discard them after use.

Environmental hazard precaution:

Shut off leak if without risk.
Prevent flow out to river, etc. so as not to badly affect.

Methods for containment and cleaning up:

Remove all sources of ignition.
Avoid unnecessary contacts with spills.
Indoor leakage: Ventilate as much as possible until the cleaning is completed.
Outdoor leakage: Work from the windward and evacuate the leeward crowd.
Absorb or cover with vermiculite or other suitable absorbent, and dispose of DOT-approved waste containers as much as possible.
Carefully wash spill site with plenty of water after material pick up.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Handle the material in a dry inert gas atmosphere, utilizing glove bag or glove box. Keep away from moisture when handling.
Keep container or bottle tightly closed when not in use.
Avoid prolonged or repeated exposure.
Handling worker wears suitable protective clothing.
Keep away from heat, sparks and naked flame.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.
Store in a cool, dry, well ventilated and dark place away from incompatible materials.
Keep away from any heat, sparks, and flames.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2013) No data available
OSHA(2006) No data available

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Color and Form:	White Solid
Chemical formula:	$LiOC_2H_5$
Density:	0.820 g/cm^3
Solubility:	Water; Decomposes
Flammable:	Flammable substance
Oxidation:	None

Section 10. Stability and reactivity

Stability: Stable in closed container under inert gas.
Decomposed by moisture in the air.

Reactivity

Incompatibility: Oxidizing agents, acids

Conditions to avoid: Heat, sparks and flames.
Water.

Section 11. Toxicological information

Acute toxicity (Oral,dermal, Inhalation) :	GHS : No data available
Skin corrosive / irritation:	GHS : Category 1B ; Causes severe skin burns and eye damage
Serious eye damage / irritation:	GHS : Category 1 ; Causes serious eye damage
Respiratory sensitization:	GHS : No data available
Skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : No data available

Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : No data available
Specific target organ toxicity	GHS : No data available
—single exposure:	
—repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environme	
—acute toxicity:	GHS : No data available
—chronic toxicity:	GHS : No data available
Hazrdous the ozone layer:	GHS : No data available
	No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN number:	3206
IATA shipping name:	Alkali metal alcoholates, self-heating, corrosive, n.o.s.
IATA classification:	Hazardous Class 4.2 (8)
IATA packing group:	II
HS code:	2905.19
Marine pollution:	None

Section 15. Regulatory information

TSCA inventory : not listed

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.