

SAFETY DATA SHEET

1. Chemical Product and Company Identification

ProductName Li2O (Grain,Powder,Rod,Tablet,Target, Code #:LIO01PB)

Reference NO. LIO01PAG-001

Creation Date 2026/04/03

Company Name : Kojundo Chemical Laboratory Co.,Ltd.
information
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Product Use For research purposes

Restriction of use Seek expert judgment when using the product for applications other than those recommended

2. Hazards identification

[GHS CLASSIFICATION]

PHYSICAL HAZARDS

Not Classification criteria.

HEALTH HAZARDS

Skin corrosion/irritation : Category1B

Serious eye damage/Eye Irritation : Category1

ENVIRONMENTAL HAZARDS

Not Classification criteria.

[GHS LABEL ELEMENTS]

Pictogram



Signal Word : Danger

Hazard Statement : Causes severe skin burns and eye damage(H314)

Precautionary Statement

Safety measures : Do not breathe dust/fume/gas/mist/vapours/spray.(P260)

: Wash the competent authority to specify parts of the body to be washed after handling. thoroughly after handling.(P264)

: Wear protective gloves/protective clothing/eye protection/face protection.(P280)

First aid measures : Immediately call a POISON CENTER/doctor(P310)

: Specific treatment.(P321)

: Wash contaminated clothing before reuse.(P363)

: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353)

: IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)

: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.(P305+P351+P338)

Storage : Store locked up.(P405)

Disposal : Dispose of contents/container in accordance with
local/regional/national/international regulation.(P501)

3. Composition/information on ingredients

Classification of the substance or mixture : Substance
Chemical or generic name : Lithium oxide

Chemical name	Concentration(%)	CAS RN®
Dilithium oxide	100.00	12057-24-8

4. First aid measures

- Inhalation : Remove the exposed person immediately and provide fresh air.
Get medical attention.
- Skin contact : Promptly flush contaminated skin with soap or mild detergent and
water.
Contact Dermatologist if irritation continues.
- Eye contact : Rinse cautiously with water for 15 minutes.Get medical attention
from an ophthalmologist.
When washing your eyes, hold your eyelids open with your fingers to
allow water to reach every corner of your eyeballs and eyelids.
- Ingestion : Rinse mouth and throat with water. Get medical attention
immediately.
- Necessary precautions for
protection of person performing
first aid measures : Rescue workers wear appropriate eye and skin protection equipment
according to the situation.
- Special precautions for doctors : The doctor should carry out treatment that corresponds to the
patient's symptoms.

5. Fire fighting measures

- Suitable extinguishing media : Use media appropriate for surrounding fire.
- Unsuitable extinguishing media : If there are overlapping items between “Suitable extinguishing
media” and “Unsuitable extinguishing media” , the use of that
extinguishing media is prohibited.
- Special hazards arising from the
substance or mixture : Danger to generate irritating, corrosive and toxic gases during fire.
: In the case of powders, there is a risk of dust explosions due to
surrounding heat or ignition sources.
- Special protective equipment
and precautions for fire-fighters : Wear appropriate respiratory air and the protective clothing (heat
resistance).

6. Accidental release measures

- Personal precautions, pro-
tective equipment and
emergency procedures : Remove all ignition sources.
: Workers should use protective wears to prevent contact with the
spilt adhesive and inhalation of its vapor/dusts.
Indoor leakage: Ventilate as much as possible until the cleaning is
completed.
Outdoor leakage: Work from the windward and evacuate the leeward
crowd.
- Enviromental precautions : Prevent flow out to river, etc. so as not to badly affect.

- Methods and material for containment and cleaning up : Shut off leak if without risk.
Avoid unnecessary contacts with spills.
: Gather up, pack in closed DOT-approved waste container as much as possible.
Carefully collect remnant and move to a safe place.
- Measures to prevent secondary disasters : Prevent leakage into sewer, rivers and etc., and take measures to prevent environmental pollution.

7. Handling and storage

Handling

- Technical measures : No information available
- Precautions for safe handling : No information available
- Avoid contact : Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.
Avoid prolonged or repeated exposure.
- Hygiene measures : Do not eat, drink or smoke when using this product.
: Wash hands thoroughly after handling.

Storage

- Safe storage conditions : Store the material in a sealed container.
Store in a cool, dry, well ventilated and dark place away from incompatible materials.
: Store molded products such as targets in an unopened condition.
- Safe container packaging materials : No information available

8. Exposure controls / Personal protection

Control parameters

Chemical name	ACGIH	OSHA
Dilithium oxide	-	-

- Equipment : Install the appropriate general ventilation equipment, local exhaust ventilation in the workplace.
- Personal protection
- Respiratory protection : Wear appropriate NIOSH/MSHA-approved respirator.
- Hand protection : Wear appropriate NIOSH/MSHA-approved impervious gloves.
- Eye and face protection : Wear appropriate NIOSH/MSHA-approved safety goggles.
- Skin and body protection : Wear appropriate NIOSH/MSHA-approved impervious protective wear, protective boots.
- Special precautions : Regularly check your protective gear.
: The notes for the table are as follows.
D: Dust, M: Mist, F: Fumes, I: Inhalable particles, R: Respirable particles, IFV: Inhalable particles and vapors, T: Total dust, V: Vapors, C: Ceiling limit

9. Physical and chemical properties

- Physical state : Solid
- Color : White
- Odour : No information available
- Melting point/Freezing point : ~1430°C
- Boiling point, initial boiling point and boiling range : No information available
- Flammability : Non-combustible

Range of explosion (lower bound - upper bound)	: No information available
Flash point	: No information available
Autoignition temperature	: No information available
Decomposition temperature	: No information available
pH	: No information available
Kinematic viscosity	: No information available
Solubility	: Decomposition(It gradually dissolves in water to form lithium hydroxide.)
Partition coefficient (n-octanol/water)	: No information available
Vapor pressure	: No information available
Density/Specific gravity	: 2.013g/cm3
Relative vapor density	: No information available
Particle characteristics	: No information available
Other	: F.W. : 29.9 Oxidizing : None Absorption of moisture and carbon dioxide from the atmosphere.

10. Stability and reactivity

Reactivity	: No information available
Chemical stability	: Stable in closed container under dry atmosphere (at room temperature).
Possibility of hazardous reactions	: No information available
Conditions to avoid	: Keep away from direct sunlight. Store in a cool, dark place.
Incompatible materials	: No information available
Hazardous decomposition products	: No information available

11. Toxicological information

Acute toxicity(oral)	No information available
Acute toxicity(dermal)	No information available
Acute toxicity(inhalation:gases)	No information available
Acute toxicity(inhalation:vapours)	No information available
Acute toxicity(inhalation:dusts and mists)	No information available
Skin corrosion/Skin irritation	Dilithium oxide : Category1B
Serious eye damage/Eye Irritation	Dilithium oxide : Category1
Respiratory sensitizer	No information available
Skin sensitizer	No information available
Germ cell mutagenicity	No information available

- Carcinogenicity
No information available
- Toxic to reproduction/Effects on or via lactation
No information available
- Specific target organ toxicity(single exposure)
No information available
- Specific target organ toxicity(repeated exposure)
No information available
- Aspiration hazard
No information available

12. Ecological information

- Hazard to the aquatic environment (acute)
No information available
- Hazard to the aquatic environment (chronic)
No information available
- Hazardous to the ozone layer
No information available
- Ecotoxicity/Fish toxicity
No information available
- Ecotoxicity/ Invertebrate toxicity
No information available
- Ecotoxicity/ Algal toxicity
No information available
- Persistence and degradability
No information available
- Bioaccumulative potential
No information available
- Mobility in soil
No information available

13. Disposal considerations

- Remained waste : Discard in accordance with the standards of the local government and relevant legislation.
- A polluted container and packing : When disposing of empty containers, empty containers are processed in accordance with the standards of the local government as well as the related laws and regulations and waste disposal method after contents are completely removed.

14. Transport information

- UN number : 3262
- Guideline Number : 154
- Shipping name : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
- UN Class : Class8 Corrosive substances
- Packing group : II
- Subsidiary risk(s) : -
- MARINE POLLUTANT : Not applicable
- Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code : Not applicable

- Special safety measures for transport or means of transport : Follow "7. Handling and storage"
: Check no leak of container, handle without overturning, falling and damaging, then reliably prevent from cargo shift.
- Domestic regulations
- Ground transport : Follow the transportation method specified in the Fire Service Law and the Industrial Safety and Health Law.
 - Marine transport : Follow the transportation method specified in the Ship Safety Law.
 - Air transport : Follow the transportation method specified in the Aviation Law.

15. Regulatory information

Follow relevant national and local regulations.

16. Other information

This " Safety Data Sheet(SDS)" is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

Since not all materials and literature have been investigated, information may be omitted, and changes may occur in the content due to the discovery of new findings or corrections of previous theories.

The information contained herein is based on information in our possession, but we do not guarantee the completeness of the information.

It is subject to revision based on changes in laws and regulations and new findings.

When using this information for important decisions, we recommend that you carefully review the source of the information or verify it through testing.

Values of ingredients, content, physicochemical properties, etc., are not quality assurance values.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used.

The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

Special Notes (displayed only if applicable)