



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 10-Oct-2023 Revision Number 1.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Lithium Tetraborate, type ?
Product Code	120-04455
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

### Section 2: HAZARDS IDENTIFICATION

**GHS** classification Classification of the substance or mixture Skin corrosion/irritation Serious eye damage/eye irritation **Reproductive Toxicity** Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)



Danger

#### **Hazard statements**

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H361 Suspected of damaging fertility or the unborn child
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure

#### **Precautionary statements-(Prevention)**

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product

# Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · If eye irritation persists: Get medical advice/attention
- · IF ON SKIN: Wash with plenty of soap and water

Category 2A Category 2 Category 1 Category 1

Category 2

• If skin irritation occurs: Get medical advice/attention

• Take off contaminated clothing and wash before reuse

### Precautionary statements-(Storage)

Store locked up

# Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

#### Others

Other hazards

Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula

Li2B4O7

	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
	Lithium Tetraborate	98.0-102.0	169.12	(1)-67	*	12007-60-2
Note on ISHL No.:		* in the	table means announ	ced chemical substa	ances.	

Impurities and/or Additives: Not applicable

# Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

Skin contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment **Unsuitable extinguishing media** 

#### No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Special extinguishing method

### No information available

### Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin,

or inhaling the gas. Work from windward, and retract the people downwind. **Environmental precautions** To be careful not discharged to the environment without being properly handled waste water contaminated. Methods and materials for contaminent and methods and materials for cleaning up Sweep up and gather scattered particles, and collect it in an empty airtight container. Recoverly, neutralization No information available Secondary disaster prevention measures Clean contaminated objects and areas thoroughly observing environmental regulations. Section 7: HANDLING AND STORAGE Handling **Technical measures** Avoid contact with strong oxidizing agents. Use with local exhaust ventilation. Precautions Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area. Safety handling precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Storage Safe storage conditions Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

Safe packaging material Incompatible substances

Keep container tightly closed. Polypropylene Strong oxidizing agents, Strong acids

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

### Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Lithium Tetraborate	N/A	N/A	STEL: 6 mg/m <sup>3</sup> inhalable
12007-60-2			particulate matter
			TWA: 2 mg/m <sup>3</sup> inhalable
			particulate matter

# Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point

white small granules - powder no data available 930 °C Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities

n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available dil. hydrochloric acid : soluble . water : slightly soluble . Ethanol, acetone and Diethyl ether : practically insoluble, or insoluble . no data available no data available no data available no data available no data available

# Section 10: STABILITY AND REACTIVITY

no data available

no data available

no data available

no data available

#### Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight, Moisture
 Incompatible materials

 Strong oxidizing agents, Strong acids
 Hazardous decomposition products

 Boron oxide, Metal oxides
 Hetal oxides

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

### Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available No information available

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated
Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Class 1
Register Law	
(2023.4.1-)	
Class 1 - No.	405
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating

Export Trade Control Order Air Pollution Control Law Soil Contamination Control Law	Wastewater Standards Art.1 Not applicable Hazardous Air Pollutants Designated Hazardous Subs	,	
Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Lithium Tetraborate 12007-60-2(98.0-102.0)	-	-	Applicable

# **Section 16: OTHER INFORMATION**

sources for data etc. ht IA R Ja D C	ITE: National Institute of Technology and Evaluation (JAPAN) ttp://www.safe.nite.go.jp/japan/db.html ATA dangerous Goods Regulations TECS:Registry of Toxic Effects of Chemical Substances apan Industrial Safety and Health Association GHS Model SDS victionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. chemical Dictionary, Kyouritsu Publishing Co., Ltd. tc
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### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet 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 guidance for safe handling, and is not to be considered 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 materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

End of Safety Data Sheet