

CANON OPTRON INC.

SDS Number: EL08

Product Name: LYB-A

SAFETY DATA SHEET

rev. 7.4 Date of Issue 2023/3/9

Revised Date 2023/9/8

SECTION 1 Chemicals and company identification

Product name	LYB-A
Product code	EL08
Company name	CANON OPTRON INC.
Address	1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan
Section name	Sales Department
Telephone number	+81-296-21-3700
Fax number	+81-296-21-3770
Emergency telephone number	+81-296-21-3700
Use	Lithium ion conductor, Battery material

SECTION 2 Hazards identification

GHS Classification (A classification by JIS Z 7252 "classification methods such as chemical substances based on GHS")

No data available

Label element

hazard Pictograms	No data available
Signal word	No data available
Dangerous goods hazard information	No data available

Precautionary statement

【Safety measures】

Obtain special instructions before use.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapours/spray.

【First-aid measures】

If swallowed:

Call a poison center or doctor/physician if you feel unwell.
Rinse mouth.

If in eyes:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call poison center or doctor/physician

【Storage】

Store in a well-ventilated place, keep container tightly closed.
Store locked up.
Store in a low humidity environment after opening.

【Disposal】

Dispose of contents/container in accordance with national regulations.

【Other hazards】

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SECTION 3 Composition/information on ingredients

Substance/Mixture	Substance
Chemical name	<i>Boron cerium lithium yttrium zirconium oxide</i>
Chemical formula	<i>Boron cerium lithium yttrium zirconium oxide</i>
Concentration or concentration range	99%<
CAS No.	2766141-05-1
TSCA Inventory	-
EINECS number	-
Radioactive information	Radioactive substances are not used as the material. Therefore, there is no reason that ionizing radiation would be generated.

SECTION 4 First aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse affected areas with water/shower. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: : Get medical advice/attention.
Eye contact	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.
Ingestion	Rinse mouth. Get medical advice/attention.
Most important symptoms and effects, both acute and delayed	No data available
Protection of first aiders	Rescuers, wear suitable protective equipment as the situation demands.
Special precautions for physicians	No data available

SECTION 5 Firefighting measures

Suitable extinguishing media	This product itself is not flammable.
Unsuitable extinguishing media	No data available
Specific hazards	No data available
Specific extinguishing methods	In the case of a fire in the periphery, the portable container is quickly moved to a safe place.
Special protective equipment for firefighters	Wear suitable protective equipment (gloves, glasses and a mask) in fire-fighting.

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SECTION 6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures	Protection equipment (specified as those in which the properties of the product are suitable) worn during operation so that airborne droplets, etc., do not adhere to the skin and dusts and gases are not absorbed.
Environmental precautions	The leakage may not directly flow into rivers or sewage.
Methods and material for containment and cleaning up	The leaked material is scooped up, or swept up and gathered to be recovered in a paper bag or a drum. After recovery, a small amount of the residue is absorbed in sediment, sawdust, etc.
Secondary disaster prevention measures	No data available

SECTION 7 Handling and storage

Precautions for safe handling

Technical measures	Take measures for equipment as described in “8. Exposure controls/personal protection” and wear protective equipment.
Safety handling precautions	Handling work must be practiced in a room where there is a local or total ventilation facility.
Avoidance of contact	Refer to “10. Stability and reactivity.”
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities	
Safe storage conditions	Store in a well-ventilated place. Keep container tightly closed. Store in a low humidity environment after opening.
Safety packaging material	No data available

SECTION 8 Exposure controls/personal protection

Boron cerium lithium yttrium zirconium oxide

Permissible concentration

ACGIH

No data available

Appropriate engineering controls

Use sealed devices, equipment, or a local exhaust ventilation as much as possible.

Individual protection measures, such as personal protective equipment

Respiratory protection	Dustproof mask
Hand protection	Protective gloves
Eye/face protection	Dust-proof glasses
Skin protection	Protective clothing

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SECTION 9 Physical and chemical properties

Appearance

Physical state	Solid
Form	Sintered body, powder
Colour	White
Odour	None

Boron cerium lithium yttrium zirconium oxide

Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	Does not explode at 2000 g/m ³ * According to JIS Z 8818
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	
Water	No data available
Other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
(Density)	2.0~2.5g/cm ³ as sintered compact
Relative vapor density	No data available
Particle characteristics	No data available
Other information	No data available

SECTION 10 Stability and reactivity

Boron cerium lithium yttrium zirconium oxide

Reactivity	No data available
Chemical stability	Stable under normal handling and storage conditions.
Possibility of hazardous reactions	Do not react in the storage conditions and normal handling.

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Conditions to avoid	<i>High temperature and humidity</i>
Incompatible materials	<i>No data available</i>
Hazardous decomposition products	<i>No data available</i>

SECTION 11 Toxicological information

Boron cerium lithium yttrium zirconium oxide

Acute toxicity(oral)	<i>No data available</i>
Acute toxicity(dermal)	<i>No data available</i>
Acute toxicity (Inhalation: Gases)	<i>No data available</i>
Acute toxicity (Inhalation: Vapours)	<i>No data available</i>
Acute toxicity (Inhalation: Dusts and mists)	<i>No data available</i>
Skin corrosion/irritation	<i>No data available</i>
Serious eye damage/irritation	<i>No data available</i>
Respiratory or skin sensitization	<i>No data available</i>
Germ cell mutagenicity	<i>No data available</i>
Carcinogenicity	<i>No data available</i>
Reproductive toxicity	<i>No data available</i>
Specific target organ toxicity(single exposure)	<i>No data available</i>
Specific target organ toxicity(repeated exposure)	<i>No data available</i>
Aspiration hazard	<i>No data available</i>
Other information	No data available

SECTION 12 Ecological information

Boron cerium lithium yttrium zirconium oxide

<p>Toxicity</p> <p>Hazardous to the aquatic environment Short-term(acute)</p> <p>Hazardous to the aquatic environment Long-term(chronic)</p>	<p><i>No data available</i></p> <p><i>No data available</i></p>
Persistence and degradability	<i>No data available</i>
Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
Hazard to the ozone layer	<i>No data available</i>

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Other adverse effects

No data available

SECTION 13 Disposal considerations

Waste treatment methods

Process is contracted to industrial waste disposers who received approval of a prefectural governor.

Contaminated container and contaminated packaging

The container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations.

When disposing of empty containers, the contents should be completely removed.

SECTION 14 Transport information

Boron cerium lithium yttrium zirconium oxide

International regulation

UN number

No data available

UN proper shipping name

No data available

UN classification

No data available

Transport hazard class

No data available

Packing group

No data available

Hazardous to the aquatic environment

No data available

Maritime transport in bulk according to IMO instruments

No data available

Japanese laws and regulations

No data available

Special precautions for users

No data available

Special Provisions

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SECTION 15 Regulatory information (Japan)

Boron cerium lithium yttrium zirconium oxide

Occupational Safety and Health Law

No data available

PRTR Law

No data available

Poisonous and Deleterious Substances control Law

No data available

Labor Standards Act

No data available

Chemical substances control Law

No data available

Fire fighting Law

No data available

Air Pollution Control Act

No data available

Water Pollution Prevention Act

No data available

Water Supply Act

No data available

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Sewerage Act	No data available
Marine Pollution Prevention Law	No data available
Waste Management and Public Cleansing Act	No data available
Note	Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

SECTION 16 Other information

The Safety Data Sheet (SDS) has been prepared based on currently available materials, information and data, and may be revised based on new information. Further, the important points in the SDS are made for the purpose of normal handling.

When handling the user product in a specialized manner, take the appropriate safety measures for the application or method.

Further, Canon Optron Inc. has paid sufficient attention to the described contents of the SDS, but does not guarantee the accuracy of its contents.

The SDS prepared by our company includes all findings from our investigation for reference. Not applicable to all items listed.

Literature Reference

[WEB site]

National Institute of Technology and Evaluation Homepage

Japan Advanced Information Center of Safety and Health Homepage

Ministry of Health, Labour and Welfare Homepage

[Regulatory review Tools]

ezCRIC (Japan Chemical Database Ltd)