

SAFETY DATA SHEET

1. Chemical Product and Company Identification

ProductName B (Powder, Code#:BBE01PB)

Reference NO. BBE01PAG-001

Creation Date 2025/10/28

Company Name : Kojundo Chemical Laboratory Co.,Ltd.
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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

Flammable solids : Category2

HEALTH HAZARDS

Specific target organ toxicity(single exposure) : Category2(Respiratory tract)

ENVIRONMENTAL HAZARDS

Not Classification criteria.

[GHS LABEL ELEMENTS]

Pictogram



Signal Word : Warning

Hazard Statement : Flammable solid(H228)

: May cause damage to organs (Respiratory tract)(H371)

Precautionary Statement

Safety measures : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)
 : Ground and bond container and receiving equipment.(P240)
 : Use explosion-proof electrical/ventilating/lighting equipment.(P241)
 : 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)
 : Do not eat, drink or smoke when using this product.(P270)
 : Wear protective gloves/protective clothing/eye protection/face protection.(P280)

First aid measures : IF exposed or concerned: Call a POISON CENTER/doctor(P308+P311)

: In case of fire: Use appropriate media to extinguish.
(P370+P378)

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 name	Concentration(%)	CAS RN®
Boron	100.00	7440-42-8

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 : Dry sand, perlite, calcium oxide, metal fire extinguishers.
- Unsuitable extinguishing media : Water, water foam
- Special hazards arising from the substance or mixture : Do not use water in metal powder fire.
- Special fire fighting procedures : Suffocate the fire with dry sand or similar materials. Remove containers to safe place if possible. Do not use water to extinguish the fire.
- Special protective equipment and precautions for fire-fighters : Wear appropriate respiratory air and the protective clothing (heat resistance).

6. Accidental release measures

- Personal precautions, protective 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 : Handle the material in a dry inert gas atmosphere, utilizing glove bag or glove box.
Keep away from moisture and oxygen when handling.
- Precautions for safe handling : Air and moisture sensitive. Light sensitive.
Keep away from heat, sparks and naked flame.
Electrically ground all equipment when handling this material and use only non-sparking tools.
Make the electrical equipment explosion-proof.
- 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.

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.
: Keep away from any heat, direct sunlight, sparks, and flames.
: Keep away from incompatible materials.
- Safe container packaging materials : No information available

8. Exposure controls / Personal protection

Control parameters

Chemical name	ACGIH	OSHA
Boron	-	-

- 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 : Powder
- Color : Black
- Odour : No information available
- Melting point/Freezing point : 2300°C

Boiling point, initial boiling point and boiling range	: 3658°C
Flammability	: 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	: Insoluble in water(Soluble in nitric acid. Insoluble in hydrochloric acid and hydrofluoric acid.)
Partition coefficient (n-octanol/water)	: No information available
Vapor pressure	: No information available
Density/Specific gravity	: 2.34g/cm ³
Relative vapor density	: No information available
Particle characteristics	: No information available
Other	: F.W. : 10.8 Oxidizing : None

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. : High temperature, heat, ignition source. : Humidity, moisture.
Incompatible materials	: Water : Oxygen, oxidizing agents, acids
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	No information available
Serious eye damage/Eye Irritation	No information available

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)

Boron : Category2(Respiratory tract)

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

: 3178

Guideline Number

: 133

Shipping name

: FLAMMABLE SOLID, INORGANIC, N.O.S.

UN Class	: Class4 Flammable solids; substances liable to spontaneous combustion; substances which, on contact with water, emit flammable gases
Packing group	: III
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.