SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-19 Print Date: 2024-01-25

SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	: Boron oxide
Product Number	: B108405
Brand	: aladdin
CAS-No.	: 1303-86-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals,Manufacture of substance	Identified uses	: Laboratory chemicals,Manufacture of substances
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1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word



ergria. Hera	2
Hazard statement(s)	
H303	May be harmful if swallowed
H360	May damage fertility or the unborn child
Precautionary statement(s)	
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice/attention.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Diboron trioxide Boron oxide Boric anhydride
Formula	: B2O3
Molecular weight	: 69.62
CAS No.	: 1303-86-2
EC-NO.	: 215-125-8

Component	Classification	Concentration
Boron oxide		
	no data available	99.999% metals
		basis

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
no data available
If inhaled
no data available
In case of skin contact
no data available
In case of eye contact
no data available
If swallowed
Do not feed anything from the mouth to an unconscious person. Rinse your mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labels (see Chapter 2.2) and/or Chapter 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water,Foam,Carbon dioxide (CO2),Dry powder Unsuitable extinguishing media



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no data available

5.2 Special hazards arising from the substance or mixture

Borane/Boron oxide

5.3 Advice for firefighters

If necessary, wear a self-contained breathing apparatus to put out the fire.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing

6.2 Environmental precautions

Do not allow the product to enter the sewer.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No data available

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

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Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

no data available

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

Body Protection

no data available

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: solid color: White
b) Odour	Odorless
c) Odour Threshold	no data available
d) pH	5.46 at 25 °C
e) Melting point/freezing point	450 °C (842 °F) - lit.
f) Initial boiling point and boiling range	
g) Flash point	not applicable
h) Evaporation rate	no data available
i) Flammability (solid, gas)	This product is non-flammable Flammability (solid)
j) Upper/lower flammability or	
explosive limits	no data available
k) Vapour pressure	no data available
I) Vapour density	no data available
m) Relative density	2.46 g/mL at 25 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available



r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions

- 10.3 Possibility of hazardous reactions no data available
- 10.4 Conditions to avoid

Exposure to moisture may affect product quality

10.5 Incompatible materials

acid,strong oxidant

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation no data available Serious eye damage/eye irritation May cause eye irritation. Respiratory or skin sensitisation no data available Germ cell mutagenicity Cell Mutability - In vitro Test - Hamster - Uterus - With or Without Metabolic Activation - Negative Cell Mutability - In vitro Test - Ames Test (Ames Test) - Salmonella typhimurium - With or Without Metabolic Activation - Negative Cell Mutability - In vivo Test - Mouse - Male and Female - Oral - Negative Carcinogenicity

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There are no components in this product at levels greater than or equal to 0.1% that have been identified by IARC as possible or definite human carcinogens. Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance. Contaminated packaging

Dispose of as unused product.

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: https://www.aladdinsci.com/

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SECTION 14: Transport information

DOT (US)		
UN number: no data available	Packing group: -	Class: -
Proper shipping name: Not dangerous goods	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: No
Environmental Hazards: No		
IMDG		
UN number: no data available	Packing group: -	EMS-No: No
Proper shipping name: Not dangerous	goods	
ΙΑΤΑ		
UN number: no data available	Packing group: -	Class: -
Proper shipping name: Not dangerous g	goods	

SECTION 15: Regulatory information

SECTION 16: Other information

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