

# BORON (AMPORHOUS)

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: Boron (Amorphous)  
CAS Number: 7440-42-8  
EC Number: 231-151-2

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

Product use: Laboratory chemicals, Industrial & for professional use only

### 1.3 Details of the supplier of the safety data sheet

**Company name:** East Harbour Group Ltd  
Miranda House, The Quay  
Harwich, Essex, CO12 3HH  
United Kingdom

**Telephone:** +44 (0) 333 242 0100  
**Email:** [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

### 1.4 Emergency telephone number

**Emergency telephone:** 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Long-term (chronic) aquatic hazard (Category 3), H412

For full text of the H-Statements mentioned in this Section, see Section 16

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008



Signal word:

Warning

#### Hazard Statement(s)

H302

Harmful if swallowed

H412

Harmful to aquatic life with long lasting effects.

#### Precautionary Statement(s)

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P301 + P312

IF SWALLOWED: Call a POISON CENTRE / Doctor if you feel unwell.



# BORON (AMPORHOUS)

P330  
P501

Rinse mouth  
Dispose of contents/container to an approved waste disposal plant.

## Section 3: Composition/information on ingredients

### 3.2 Mixtures

CAS Number	Content (W/W)	Ingredients
7440-42-8	90-92%	Boron
7439-95-4	8-10%	Magnesium

Chemical name: Boron Amorphous  
Common name/synonyms: Boron

## Section 4: First aid measures

### 4.1 Description of first aid measures

**In case of skin contact:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**In case of eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**If swallowed:** If swallowed, call a physician immediately.

**If inhaled:** If breathed in, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## Section 5: Fire-fighting measures

### 5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Water

### 5.2 Special hazards arising from the substance or mixture

This material, like most materials in powder form, is capable of creating a dust explosion.

### 5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus and prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

Utilise recommended protective clothing and equipment.



# BORON (AMPORHOUS)

## 6.2 Environmental precautions

Keep from entering water or ground water.

## 6.3 Methods and material for containment and cleaning up

Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat, and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in ambient temperature

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

### 8.2 Exposure controls / Appropriate engineering controls

General industrial hygiene practice.

### 8.3 Personal protective equipment

Eye/face protection: Safety glasses or goggles.

Skin protection: PVC gloves with impervious boots, apron, or coveralls. Wash hands and face before eating, drinking, or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Brown/Black
<b>Physical State</b>	Powder
<b>Odor</b>	Odourless
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting Point/Range</b>	2200°C
<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	No information available



# BORON (AMPORHOUS)

<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	Not flammable
<b>Explosion Limits</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Specific Gravity / Density</b>	2.25
<b>Bulk Density</b>	No information available
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition Coefficient</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available

## Section 10: Stability and Reactivity

<b>10.1 Reactivity</b>	No information available
<b>10.2 Chemical Stability</b>	Stable
<b>10.3 Possibility of hazardous reactions</b>	Hazardous polymerisation will not occur
<b>10.4 Conditions to avoid</b>	Excessive temperatures
<b>10.5 Incompatible materials</b>	Strong oxidising agents, strong acids
<b>10.6 Hazardous decomposition products</b>	Unknown

## Section 11: Toxicological Information

**11.1 Toxicological effects:**  
 RTECS Number: ED7350000  
 Routes of Exposure: Eye contact, ingestion, inhalation, skin contact  
 Toxicity data: LD50 Oral-rat 650 mg/kg  
 Chronic toxic effects: This material has not been fully tested  
 Acute toxic effects: Harmful if swallowed, inhaled, or absorbed through skin.  
 Material is irritating to mucus membranes and upper respiratory tract.  
 May cause eye irritation.  
 May cause nervous system disturbances.

## Section 12: Ecological Information

**12.1 Toxicity**  
**Ecotoxicity effects**  
 No information available

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal should be in line with existing environmental regulations



## BORON (AMPORHOUS)

### Section 14: Transport Information

Proper Shipping Name: Boron Powder (amorphous)  
UN Number: N/A  
Class: N/A  
P.G.: N/A  
Label Code: N/A

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### Section 15: Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

