

# MATERIAL SAFETY DATA SHEET

## Boron (Amorphous)

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

#### 1.1. Product identifier

Product name:	Boron (Amorphous)
CAS-No. :	7740-42-8
EC / List No. :	231-151-2

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

Identified uses :	Laboratory chemicals, manufacture of substances
-------------------	---

#### 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
Tel:	+44(0)333 242 0100
Email:	<a href="mailto:info@eastharbourgroup.com">info@eastharbourgroup.com</a>

#### 1.4. Emergency telephone number

Emergency tel:	+44(0)333 242 0100
----------------	--------------------

### Section 2: Hazardous identification

#### 2.1 Classification of the substance or mixture

Acute Toxicity, Oral (Category 4). H302

#### 2.2. Label elements



Signal Word: Warning

Hazard Statements

H302: Harmful if swallowed

Precautionary Statements

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell

P330: Rinse mouth

P501: Dispose of contents/container to an approved waste disposal plant

### Section 3: Composition/information on ingredients

#### 3.2. Mixtures

CAS #	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 inhaled, 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

Document Number: 124

Version Number: 1

Date: 27.03.20

No information available

**4.3. Indication of any immediate medical attention and special treatment needed**

No information 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

**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

General industrial hygiene practice.

### 8.3 Personal protective equipment

Eye 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>Odour</b>	Odourless
<b>Odour 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
<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

Document Number: 124

Version Number: 1

Date: 27.03.20

**Decomposition temperature**      No information available

## Section 10: Stability and reactivity

**10.1. Reactivity**      No information available

**10.2. Chemical stability**      Stable

### 10.3. Possibility of hazardous reactions

**Hazardous Reactions**      Hazardous polymerisation will not occur

**10.4. Conditions to avoid**      Excessive temperatures

**10.5. Incompatible materials**      Strong oxidising agents, strong acids

**10.6. Hazardous decomposition products**      Unknown

## Section 11: Toxicological information

### Product Information

#### 11.1 Toxicological effects:

RTECS Number: ED7350000

Routes of Exposure: Eye contact, ingestion, inhalation, skin contact

Toxicity data: LD50 Orla-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

Document Number: 124

Version Number: 1

Date: 27.03.20

## **Section 13: Disposal considerations**

### **13.1 Waste treatment methods**

Waste disposal should be in line with existing environmental regulations.

## **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

## **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