

Material Safety Data Sheet (MSDS) for:

BORIC ACID (POWDER)

(1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: BORIC ACID (POWDER)
CAS-No. 10043-35-3
EC NO. 233-139-2
Supplier: Intralabs, 6 Endsleigh Park Road, Plymouth, Devon, PL3 4NH
E: admin@intralabs.co.uk
Product ID: BA ---
Application: General Chemical Reagent

(2) HAZARDS IDENTIFICATION

May impair fertility. May cause harm to the unborn child.
CLASSIFICATION (67/548)
Repr. Cat. 1; R60, R61.

(3) COMPOSITION/INFORMATION ON INGREDIENTS

EC No. 233-139-2
CAS-No. 10043-35-3

(4) FIRST AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

INGESTION

Rinse mouth thoroughly. Get medical attention.

SKIN CONTACT

Remove contaminated clothing and wash before re - use. Wash skin thoroughly with soap and water. In serious cases or if discomfort continues after slight contact obtain medical attention.

EYE CONTACT

Promptly wash eyes with plenty of water or eyewash solution while lifting the eyelids. Remove contact lenses if possible. Get medical attention if any discomfort continues.

(5) FIRE-FIGHTING MEASURES

EXTINGUISHING

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

(6) ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Avoid dust formation. Small Spillages: Carefully remove with scoop or shovel if safe to do so and transfer to waste containers. Large Spillages: Contain and mix spillage with sand or other inert absorbant. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

(7) HANDLING & STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Chemical storage.

(8) EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator. Wear respirator if there is dust formation.

HAND PROTECTION

Use protective gloves made of: Rubber or plastic.

EYE PROTECTION

Wear safety glasses. Use tight fitting goggles if dust is generated.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

(9) PHYSICAL & CHEMICAL PROPERTIES

<i>APPEARANCE</i>	Solid
<i>COLOUR</i>	White
<i>ODOUR</i>	Odourless
<i>SOLUBILITY</i>	Slightly soluble in water.
<i>MELTING POINT (°C)</i>	Approx. 185
<i>RELATIVE DENSITY</i>	1.44 20
<i>BULK DENSITY</i>	0.4 - 0.6 kg/l
<i>pH-VALUE, CONC. SOLUTION</i>	3.7 (4.6% @ 20 C)
<i>SOLUBILITY VALUE (g/100g H₂O@20°C)</i>	Circa 4.7

(10) STABILITY & REACTIVITY

STABILITY

Stable.

MATERIALS TO AVOID

Alkali metals, anhydrides.

(11) TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 2660 mg/kg (oral rat)

INHALATION

May cause irritation to the respiratory system.

INGESTION

Nausea, vomiting. Diarrhoea.

SKIN CONTACT

Slightly irritating.

EYE CONTACT

Irritating to eyes.

(12) ECOLOGICAL INFORMATION

ECOTOXICITY

Ecological effects cannot be excluded in the event of improper handling or disposal.

LC 50, 96 Hrs, FISH mg/l	79 - 155
EC 50, 48 Hrs, DAPHNIA,mg/l	133

BIOACCUMULATION

Low bioaccumulation potential.

(13) DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

(14) TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

(15) REGULATORY INFORMATION

RISK PHRASES

R60 May impair fertility.

R61 May cause harm to the unborn child.

SAFETY PHRASES

NC Not classified.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

(16) OTHER INFORMATION

REVISION DATE: 24 November 2012

Revise every two years