

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **BORIC ACID**
Product Code B32050
CAS Number 10043-35-3
Other Names B32050
IUPAC
MFCN Number
EC/EINECS 233-139-2
REACH Number Index-No

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

For research and laboratory use only.

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road, Chelsworth
Ipswich
Suffolk
IP77LE
UK



Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk

4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

H360 Repr. 1A

2. Label elements

Signal Word **Danger**



Hazard Statements

H360 May damage fertility or the unborn child ..

Precautionary Phrases

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to in accordance with national regulation.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
BORIC ACID		
CAS Number: 10043-35-3 EC/EINECS: 233-139-2	H360 Repr. 1A	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water. Consult a doctor
<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes. Consult a doctor
<i>Ingestion</i>	Do not induce vomiting. Wash out mouth with water. Consult a doctor
<i>Inhalation</i>	Supply fresh air; consult a doctor in case of complaints. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor

2. Most important symptoms and effects

P308 + P313: IF exposed or concerned: Get medical advice/attention.
No data available

3. Indication of any immediate medical attention

Obtain medical attention in the event of any acute or delayed symptoms

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Alcohol resistant foam.
Dry chemical powder.
Carbon dioxide.

Unsuitable No data available

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form: Carbon oxides

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

Safe Handling Handle in chemical fume hood with independent air system.
P201: Obtain special instructions before use.

Protection against explosions and fires P202: Do not handle until all safety precautions have been read and understood.
Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store in cool, well ventilated area.
<i>Storage Controls</i>	None
<i>Maintaining Integrity</i>	No data available
<i>Other advice</i>	P405: Store locked up. No further information available.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	P281: Use personal protective equipment as required. Avoid contact with skin and eyes Wash hands during breaks and at the end of handling the material Immediately remove any contaminated clothing
<i>Engineering measures</i>	Handle in chemical fume hood with independent air system.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Protective gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	Respiratory protective device with particle filter. Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>Other personal protection advice</i>	No data.

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	White solid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available

Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

None

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions

No data available

4. Conditions to Avoid

Moist Air.

5. Incompatible Materials

Acid anhydrides.
Potassium.

6. Hazardous Decomposition Products

In combustion emits carbon oxides, Boron compounds.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) 2,660 mg/kg LD50 Dermal (rabbit) 2000mg/kg LD50 Inhalation (rat) 0.16mg/L -4h
<i>Skin corrosion/irritation</i>	No information available
<i>Serious eye Damage/irritation</i>	No information available
<i>Respiratory or skin sensitisation</i>	No information available
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	No information available
<i>Reproductive toxicity</i>	Presumed human reproductive toxicant.
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
The toxicological properties have not been fully investigated

12. Ecological Information

1. Toxicity

Freshwater Fish
LC50 5600mg/L/96h (Gambusia affinis)

Water Flea
EC50 115-153 mg/L -48h

2. Persistence and degradability

No information available

3. Bio-Accumulative Potential

No information available

4. Mobility and Soil

No information available

5. Results of PBT & vPvB assessment

No information available

6. Other adverse effects

No information available

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text