



SAFETY DATA SHEET

BORIC ACID

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME:	BORIC ACID
PART No.:	RM046
SYNONYMS, TRADE NAMES:	ORTHOBORIC ACID
SUPPLIER:	J M Loveridge plc Southbrook Road, Southampton Hampshire SO15 1BH Tel: 023 8022 2008 Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EEC (EINECS) No.	233-139-2
CAS No.:	10043-35-3

3. HAZARDS IDENTIFICATION:

Not regarded as a health hazard under current legislation.

4. FIRST AID MEASURES:

GENERAL:	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
INHALATION:	Move affected person from exposure.
INGESTION:	DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Obtain medical attention if adverse symptoms occur.
SKIN:	Causes mechanical irritation. Wash affected area with plenty of soap and water.
EYES:	Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use extinguishing media suitable against surrounding fire or the cause of fire.

PROTECTIVE MEASURES IN FIRE: Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PRECAUTIONS TO PROTECT ENVIRONMENT: Prevent contamination of soil, drains and surface water.

SPILL CLEANUP METHODS: Avoid dry sweeping or other methods which raise dust. Vacuum or wet-sweep and place into a suitable closable, labelled container for disposal. Wash the area clean with water and detergent, observing environmental requirements.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS: The product should be used in accordance with good industrial safety practice and hygiene principles for handling and storing of chemicals.
Avoid creating or raising dust.

STORAGE PRECAUTIONS: Store in a cool, dry, well ventilated place, in securely closed original container.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT COMMENTS: No specific OES assigned, however for dusts of any kind, ensure LTEL (8-hour TWA ref. period) level does not exceed 10 mg.m³ for total inhalable dust or 4 mg.m³ for respirable dust (or) as recommended in current edition of EH40.

VENTILATION: Provide adequate general and local exhaust ventilation.

RESPIRATORS: If unable to control dust emissions below OES limits, an approved dust protection to P2 level of protection is recommended.

PROTECTIVE GLOVES: Use protective gloves.

EYE PROTECTION: Use eye protection if eye contact is likely.

OTHER PROTECTION: Wear personal protective equipment appropriate to the quantity of material handled.

HYGIENIC WORK PRACTICES: SKIN PROTECTION - apply barrier cream to hands and exposed skin.
Regularly vacuum dust to minimise the potential of air-borne exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: White crystalline powder or granules.

BULK DENSITY: ca. 880 kg/m³

pH-VALUE, DILUTED SOLUTION: ~ 3.7 **Concentration % M:** (4.7 % aqueous soln.)

SOLUBILITY DESCRIPTION: 4.6% - saturated solution @ 20°C.

FLAMMABILITY LIMIT - LOWER(%): Fire retardant

10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions of use.

11. TOXICOLOGICAL INFORMATION:

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

INHALATION: High concentration of dust may cause transient irritation to the upper respiratory tract.

SKIN: Repeated or prolonged contact may cause mild irritation and/or drying (defatting) of skin.

EYES: May cause transient eye irritation and discomfort. (mechanical irritation)

12. ECOLOGICAL INFORMATION:

Ecotoxicological data LC50 24 hours Daphnia magna 242 mg/l
LC50 21 days fish (embryonic rainbow trout) 150 mg/l

ECOLOGICAL INFORMATION: Boron is an essential plant micronutrient, however in large quantities can be phytotoxic.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

14. TRANSPORT INFORMATION:

GENERAL: Not classified as hazardous for transport.

15. REGULATORY INFORMATION:

UK REGULATORY REFERENCES: This product is not classed as dangerous substance under the classification, packaging and labelling of dangerous substances regulations.

16. OTHER INFORMATION:

INFORMATION SOURCES: This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS: Edition 01; Revised item(s):

ISSUED BY: MK

SDS No.: 071

DATE: 12/07/02

DISCLAIMER: The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.