

REVISION DATE: 14th October 2008



SAFETY DATA SHEET

Boric Acid

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

PRODUCT NAME	Boric Acid
SYNONYMS, TRADE NAMES	Optibor...., Orthoboric Acid, , Boracic Acid,
SUPPLIER	Univar 46 Peckover Street BRADFORD West Yorkshire BD1 5BD +44 1274 377000 +44 1274 377001 sds@univareurope.com
Emergency Contact Number (Office Hours)	+441274 377070
SDS No.	B016

2 HAZARDS IDENTIFICATION

CLASSIFICATION -

3 COMPOSITION/INFORMATION ON INGREDIENTS

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

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

INGESTION

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues. Do not induce vomiting.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. 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

REVISION DATE: 14th October 2008

Boric Acid

PERSONAL PRECAUTIONS

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

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m³.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Crystals or crystalline Solid		
SOLUBILITY	Soluble in water		
MOL. WEIGHT	61.83	MELTING POINT (°C)	171
RELATIVE DENSITY	1.51	pH-VALUE, DILUTED SOLUTION	5.1 1
PARTITION COEFFICIENT (N-Octanol/Water)	-0.7570	SOLUBILITY VALUE (g/100g H ₂ O@20°C)	4.7

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

REVISION DATE: 14th October 2008

Boric Acid

MATERIALS TO AVOID

Strong reducing agents. Strong acids.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 3500 - 4100 mg/kg (oral rat)

INHALATION

Dust in high concentrations may irritate the respiratory system.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Powder may irritate skin.

EYE CONTACT

Particles in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

EC 50, 48 Hrs, DAPHNIA, mg/l 133

MOBILITY

The product is soluble in water.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION

ROAD TRANSPORT NOTES Not Classified

RAIL TRANSPORT NOTES Not Classified.

SEA TRANSPORT NOTES Not Classified.

AIR TRANSPORT NOTES Not Classified.

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

ISSUED BY

Univar Ltd

REVISION DATE

14th October 2008

REVISION DATE: 14th October 2008

Boric Acid

REV. NO./REPL. SDS GENERATED 07

SDS NO. B016

SAFETY DATA SHEET STATUS

Approved.

DATE 14th October 2008

SIGNATURE Jitendra Panchal