rotafix

MATERIAL SAFETY DATA SHEET
ACCORDING TO 93/112/EC
BORON ULTRA

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY Component 1 of 1

PRODUCT NAME AND CODE: BORON ULTRA - 3613 EMERGENCY NUMBER (OFFICE HOURS) 01639 730481

COMPANY-UNDERTAKING IDENTIFICATION - ROTAFIX HOUSE, ABERCRAF, SWANSEA, SA9 1UR. TEL: 01639 730481 FAX: 01639 730858

2. COMPOSITION/INFORMATION ON INGREDIENTS

Contains: Disodium octaborate tetrahydrate

3. HAZARDS IDENTIFICATION

Unlikely to cause harmful effects under normal conditions of handling and use.

4. FIRST-AID MEASURES

INHALATION: Irritation of breathing passages. Remove from exposure, rest and keep warm. If recovery is not rapid seek medical attention.

SKIN: Mild mechanical irritation. Drench skin with plenty of water. Remove contaminated clothing and wash. If irritation persists seek medical attention.

EYES: Irrigate thoroughly with clean water for at least 10 minutes. Seek medical attention.

INGESTION: In the event of ingestion, wash out mouth with water, do not induce vomiting, give water to drink, seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishers: Use extinguisher suitable to cause of fire.

Hazardous combustion products: Material is not flammable of combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective clothing.

Environmental precautions: Do not allow spillages to enter drains, watercourses or streams. Inform appropriate authority of any release to water courses.

Methods for cleaning up: Vacuum or sweep up and place in suitable labelled containers. Hold for waste disposal.

7. HANDLING AND STORAGE

STORAGE PRECAUTIONS: Store in original containers. Teperature range: Ambient. Humidity range: Dry.

HANDLING: Wear protective clothing, minimize dust formation and accumulation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits 10mg/m total: 4mg/m^3 , respirable: 8h TWA. Type: EH40 guidance

RECOMMENDED PROTECTIVE CLOTHING: Respiratory: Type approved RPE for dusts if required. Wear suitable gloves, goggles and overalls

GENERAL PROTECTION AND HYGIENIC MEASURES: Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of work. Avoid contact with eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Free flowing powder

DENSITY @ 25°C: 320 - 480 kg/m^3

VAPOUR DENSITY (AIR = 1): ---

VAPOUR PRESSURE @ 25°C: Negligable

SOLUBLE IN WATER: 9.7% @ 20°C; 34.4% @ 50°C

APPEARANCE: White powder

ODOUR: None

pH: between 7.6 (10% solution): 8.3 (3% solution).

VISCOSITY @ 25°C: ---

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Known Hazardous reactions: Generates flammable hydrogen gas with metal hydrides or alkali metals.

Conditions to avoid: Damp

Materials to avoid: Strong reducing agents.

11. TOXICOLOGICAL INFORMATION

Effects: Low acute toxicity. Not irritating or sensitizing to eyes and skin. Material may cause mechanical irritatiion in dusty environments.

Human epidemiological studies show no increased pulmonary disease in occupational populations with chronic exposure to boric acid and sodium borate dust. A study under conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

LD_{50} 2 550 mg/kg oral-rat >2000 mg/kg skin-rabbit

12 ECOLOGICAL INFORMATION:

Environmental Effects: Boron occurs naturally in the environment and is an essential nutrient for healthy growth of plants. However it can be harmful to boron sensitive plants in high concentrations.

Mobility: Soluble in water where the material is substantially converted to undissociated boric acid. Leachable through soil.

Degradability: Deconposes in the environment to natural borates. Aquatic Toxicity: LC_{50}, 96 h, Dab = 74mg B/1; LC_{50}, 32 day, Rainbow trout = 88mg B/1; LC_{50}, 48h, Daphnia magna = 530 mg B/1; EC_{10}, 96h, Green algae = 24mg B/1

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses. Wastes including emptied containers, are controlled wastes and should be disposed of in accordance with Local and National regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.

14. TRANSPORT INFORMATION

Not classified as a hazardous material for transportation.

15. REGULATORY INFORMATION

No risk phrases. No safety phrases.

16. OTHER INFORMATION

Customers are urged to ensure that the product is entirely suitable for there own purpose. It is the customers responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

This information contained herein is based on our present knowledge however, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.