

MATERIAL SAFETY DATA SHEET

COMPANY:

TRADE CORPORATION INTERNATIONAL S. A. UNIPERSONAL



DIVISION: FERTILIZERS

PRODUCT NAME: TRADEBOR

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

1.1 Identification of the substance TRADEBOR. Boron ethanolamine
Proper Shipping Name

1.2 UN Number: N/a
D.G. Class: None
Subsidiary Risk: None
Hazchem Code: None
Packaging Group: None
Poisons Schedule: N/a

1.3 MANUFACTURING COMPANY:

1.3.1. Name: TRADE CORPORATION INTERNATIONAL, S. A. Unipersonal
1.3.2. Address: C/ Julián Camarillo, 29
Edificio Diapasón 1
28037 – Madrid - SPAIN
1.3.3. Telephone: +34 91 3273200

1.4 DISTRIBUTING COMPANY

1.3.1 Name: AGSPEC AUSTRALIA PTY LTD
1.3.2 Address: LOT 1, WANDILO ROAD, WANDILO VIA MT GAMBIER,
SA, 5291
1.3.3 Telephone: 08 8723 0721
0427 490 551

1.5 Emergency telephone:

1.5.1. Company: Agspec Australia Pty Ltd
08 8723 0721
0427 490 551

1.5.2. Poisons Information Centre: **13 11 26**

2.- COMPOSITION / INFORMATION OF THE COMPONENTS

2.1 General composition: 15% boron (B)

2.2 Hazardous components

<u>Chemical name</u>	<u>Concentration</u>	<u>Nº CAS</u>	<u>Nº EINECS</u>	<u>Classification</u>	<u>Phrases R/S</u>
Ethanolamine	>20%	141-43-5	205-483-3	Harmful	R S 20; 36/37/38

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3.- HAZARDS IDENTIFICATION

- Harmful
- It can irritate eyes and skin
- It can irritate the digestive system. Harmful by ingestion.
- It can irritate respiratory ways

4.- FIRST AID MEASURES

- 4.1 Skin contact: Remove contaminated clothing, shoes and jewelry included. Wash off the affected area with water and soap until any evidence of chemical product disappears
- 4.2 Eye contact: Wash off immediately with water with water for 15 minutes. Rise up eyelids occasionally and keep on washing until any presence of chemical product disappears. If irritation remains obtain medical attention.
- 4.3 Inhalation: Move to the fresh air in case of accidental inhalation.
- 4.4 Ingestion: If conscious without convulsions, rinse out the mouth with water and drink water. Do not induce vomiting. Obtain medical attention
- Medical warning: This product contains boric acid and ethanalamine which is a powerful corrosive substance, of basic character. It is recommended to use in the washes of the skin, soaps or detergents of neutral action or lightly acid. If a wash of stomach is affected, endotracheal an esophagus control is recommended.
There is no specific antidote

5.- FIRE-FIGHTING MEASURES: Not applicable

- 5.1 Extinguishing media: Non inflammable, but in case of fire near the products storage, CO2, foam, chemical powder, pulverized water can be used to extinguish it. Use as less water as possible. Be careful with unnecessary pouring of extinguishing media that can be toxic
- 5.2 Extinguishing media which must not be used for safety reasons: Direct water spurt.
- 5.3 Special exposure hazards: Nitrogen oxides and other gases that can be toxic, specially the ones containing Boron

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| 5.4 | Special protective equipment for firefighters: | Adequate protection equipment: rubber gloves and boots, hood and resistant chemical/termic suit with facial mask and autonomous respiration system |
| 5.5 | Additional measures: | Keep containers cold using water spraying. Recuperate washing water, contaminated absorbents and place in waste authorized containers. If water reaches the sewer system, call the authorities |

6.- ACCIDENTAL RELEASE MEASURES

- | | | |
|-----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.1 | Personal precautions: | Handle the product according to safe and hygienic practices. Avoid contact with skin and eyes. Use safety gloves and goggles. Read section 8 |
| 6.2 | Environmental precautions: | Do not pour on water ways and sewer system. In case of flood, put absorbent barricades of sand or sepiolite and call the authorities. |
| 6.3 | Methods for cleaning up: | Avoid spreading by using absorbent material (e.g. clay, earth). Recover residues. Clean surface with water and soap. Recuperate washing water, contaminated absorbents and place in waste authorized containers. |

7.- HANDLING AND STORAGE

- | | | |
|-----|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1 | Handling precautions: | Read label before opening the product. Handle the product according to safe and hygienic practices. Avoid contact with the product or breathing it. Don't drink, eat or smoke during its usage. Wash hands and skin in contact with the product at the end of its utilization. |
| 7.2 | Storage conditions: | Storage according to the local normative, in a dry and well ventilated place, far from food, drinks, animal foods and cosmetics. Keep away from oxidation and acid materials. Be careful with children. Avoid extreme temperatures. Keep in original packing. |

Additional information:

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8.- EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Engineering measures: If it is necessary to keep good general ventilation, the TLV must never be exceeded. Eye washers and safety showers must be present.
- 8.2 Control of exposition limit: For ethanolamine: TLV= 3 ppm in the air
For Boric acid: TLV=10 mg/m³ in the air
- 8.3 Respiratory protection: Use breathing mask and keep adequate ventilation when spraying
- 8.4 Hand protection: Use adequate protection gloves
- 8.5 Eye protection: Safety glasses
- 8.6 Skin protection: Use suitable safety cloth including rubber footwear.

9.- PHYSICAL AND CHEMICAL PROPERTIES

Melting point/range	Not applicable	Aspect	Syrupy Liquid
Boiling point	Not available	Colour	Light yellow
Oxidizing properties	Not available	Density	1.36-1.38 g/cc approx
Flammability	Not applicable	Flash point	Not applicable
Solubility	Total	Ignition	Not applicable
Vapor pressure	Not available	pH	7-8
Partition Coefficient	Not available	Viscosity	Not available
Explosion properties	Not applicable	Other data	

10.- STABILITY AND REACTIVITY

- 10.1 Stability: Stable at ambient temperature and normal handling conditions. Do not storage at temperatures higher than 35°C. Instable at alkaline pHs.
- 10.2 Conditions to avoid: Extreme temperatures (Lower than 10°C and higher than 60°C). Do not expose to direct sun light.
- 10.3 Materials to avoid: Strong acids and oxides. Avoid contact with Aluminum, Cooper and Brass.
- 10.4 Hazardous decomposition products: In case of combustion or thermal degradation, nitrogen oxide and carbon dioxide can be produced.

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11.- TOXICOLOGICAL INFORMATION

11.1 LD₅₀ (oral) in rats: 3.500 mg/kg for the boric acid and 1000 mg/kg for the ethanol amine. The DL50 resultant is of 2.400 mg/kg. It also causes irritation to the mucosities, for what it can be harmful in case of ingestion.

11.2 Skin irritation, test in rabbits : Not available

11.3 Eyes irritation, test in rabbits It can cause eye irritation

11.4 Skin sensibility (test in rabbits): Not available

12.- ECOLOGICAL INFORMATION

12.1 LD₅₀ fish: Not available

12.2 EC₅₀ daphnia: 133 mg/l for the boric acid and 74 mg/l for ethanolamine. The dose calculated fro the product is 124 mg/l

12.3 IC₅₀ bacteria: Not available

12.4 Biodegradability: Biodegradable product

Additional information: The ethylamine borate is not stable at low pHs. Boron is stable. Boric acid will turn into natural borates in contact with the environment, and its DBO20/dTHo=63.3%

13.- DISPOSAL CONSIDERATIONS

Do not pour in water sewer system or water currents. Destroy the product in authorized deposits of residues.

Used packages have the same treatment than the product, regarding to elimination.

14.- TRANSPORT INFORMATION

- road-ADR/rail: not restricted
- Sea (IMO/IMDG): not restricted

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15.- REGULATORY INFORMATION**CLASSIFICATION:**

Harmful

LABEL:

Xn

**Risk phrases:**

R20: Harmful for inhalation

R36,37,38: It irritates eyes, skin and respiratory ways

Safety phrases:

S2: Keep out the reach of children

S13: Keep far from food, drinks, animal foods and cosmetics.

S26: In case of eye contact, wash up immediately with plenty of water and see a doctor

S28: In case of skin contact, wash up immediately with plenty of water and soap
S37/39: use suitable gloves and eye/face protection

S45: In case of accident, come immediately to see a doctor and show the label if possible

Register number: EC Fertilizer

Boron ethanolamine

16.- OTHER INFORMATION

16.1 Recommended use: Agricultural use

16.2 Bibliography sources:

- Dir. 67/548/CEE (Dangerous substances)
 - Dir. 1999/45/CE (Dangerous preparations)
 - Dir. 91/689/CEE (Dangerous residues)
 - Royal decree 55/2003 (Dangerous preparations)
 - Royal decree 363/1995 (Dangerous substances)
- Royal decree 74/92 (Road transport)

16.3 FDS revision n°: 4

16.4 Date of last revision: March 31, 2008

The information included in these pages, is based on our knowledge of the product at the time of the edition. User is the responsible to take convenient safety precautions to the storage and handling, and use it according to the label indications. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.