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## 1. SECTION 1: Identification of the product and of the company/undertaking

### 1.1. Product identifier

Commercial name: **Tradebor**

Chemical name: Orthoboric acid, compound with 2-aminoethanol

EC No: 247-421-8

CAS No: 26038-87-9

Registration Number: 01-2119548394-33-0002

### 1.2. Relevant identified uses of the product and uses advised against

Identified uses: Fertilizer (Agriculture).

Uses advised against: Not identified.

### 1.3. Details of the supplier of the product safety document

TRADE CORPORATION INTERNATIONAL, S.A.U.  
 c/ Alcalá, 498 - 2nd floor  
 28027 - Madrid (Spain)  
 Telephone: +34 91 327 32 00 Fax: +34 91 304 71 72  
 E-mail: sds@tradecorp.saptec.pt

### 1.4. Emergency telephone number

Tel.: +34 91 327 32 00 (9:00 - 17:00h, CET - Central European Time).

## 2. SECTION 2: Hazards identification

### 2.1. Classification of the product

**Classification in accordance with European Regulation (EC) No. 1272/2008:**


The product is not hazardous.

### 2.2. Label elements

The product is not classified as dangerous; therefore no specific label elements are required.

### 2.3. Other hazards

This product is not conclusively a persistent, bioaccumulating nor toxic (PBT), or very persistent, very bioaccumulative (vPvB) product (See section 12).

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**3. SECTION 3: Composition/information on ingredients**

Product identifier: **Tradebor**

Chemical name	CAS No.	EINECS No.
Orthoboric acid, compound with 2-aminoethanol	26038-87-9	247-421-8

**4. SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

Keep patient at rest and maintain body temperature. Remove the victim to a ventilated area. Get medical attention. Give symptomatic and supportive treatment, if required.

**Skin contact:**

After contact with skin, remove contaminated clothing and wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**Eye contact:**

Immediately wash affected eyes for at least 15 minutes, taking care to rinse under eyelids. Consult an eye specialist.

**Ingestion:**

Rinse mouth with water. Get medical attention and show the label or packaging. Do not induce vomiting. If vomiting occurs, keep victim's head below hips to prevent aspiration.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**


All treatments should be based on observed signs and symptoms.

**5. SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media: chemical powder, CO<sub>2</sub>, water spray or alcohol resistant foam.

Unsuitable extinguishing media: Direct water spurt (water jet).

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**5.2. Special hazards arising from the product**

Possibility of exposure to toxic combustion products.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**5.3. Advice for fire-fighters**

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus and personal protective equipment.

**6. SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

- Isolate and delimit the affected area.
- Eliminate all sources of ignition.
- Use personal protective equipment and respiratory protection.
- Avoid contact with skin and eyes.
- Evacuate personnel to safe areas.
- Ensure adequate ventilation.

**6.2. Environmental precautions**

- Prevent the product reaches the sewer.
- Prevent soil contamination.

**6.3. Methods and material for containment and cleaning up**


- Clean up with absorbent materials (eg. soil, sand, diatomaceous earth or any non-flammable absorbent).
- Store collected material in adequate containers for disposal. Label these containers and manage in accordance with local regulations.
- Do not mix with other waste materials.
- If there are spills or uncontrolled discharges on surface waters (or water for public use), immediately inform the local authorities.

**6.4. Reference to other sections**

See Sections 8 and 13.

**7. SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

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See also Section 8.

Use personal protective equipment (PPE). Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Do not handle the product near a source of ignition or near open flame.

Do not smoke, drink or eat while handling the product.

Wash hands with soap after handling and before eating, drinking, smoking or using the toilet.

Remove clothing immediately if the product is inside. Wash skin thoroughly with mild soap and dress clean clothes.

**7.2. Conditions for safe storage, including any incompatibilities**

Do not store near or with any of the incompatible materials listed in Section 10.

Do not store with food, beverages, feed and water supplies.

Do not store near flame, heat sources or near strong oxidizing agents.

Avoid extreme temperatures.

Store the product in the original container.

Keep tightly closed containers in a dry, cool and well ventilated sheltered from the sun.

Keep out of reach of unauthorized persons, children and animals.

**7.3. Specific end use(s)**

See section 1.2.

**8. SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**DNELs:**

**DNELs for workers:**

3.3 mg/kg bw/day (dermal exposure)

5.9 mg/m<sup>3</sup> (inhalation)

**DNELs for general population:**

1.7 mg/kg bw/day (dermal exposure)

1.4 mg/m<sup>3</sup> (inhalation)

1.7 mg/kg bw/day (oral exposure)

**PNECs:**

PNEC aqua (freshwater): 0.026 mg/L

PNEC aqua (marine water): 0.0026 mg/L

PNEC aqua (intermittent releases): 0.26 mg/L


PNEC sediment (freshwater): 0.054 mg/kg

PNEC sediment (marine water): 0.0054 mg/kg

PNEC soil: 0.014 mg/kg

PNEC sewage treatment plant: 10 mg/L

PNEC oral: 66.7 mg/kg food

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**8.2. Exposure controls**

**8.2.1 Proper technical controls**

See also Section 7.  
 Ensure adequate ventilation and/or exhaust ventilation.

**8.2.2 Individual protective measures**

**Respiratory protection:** Use breathing mask with appropriate filter.  
**Hand protection:** Use protection gloves.  
**Eye protection:** Wear safety glasses with side-shields (e.g. EN 166) or facial protection screen.  
**Skin and body protection:** Work clothes, apron and protective boots are recommended.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Have eye wash bottle with distilled water. Remove and wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling.


**8.2.3 Environmental exposure controls**

Do not flush into surface waters or sanitary drain systems.

**9. SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not applicable
<b>pH:</b>	7.5
<b>Freezing point:</b>	-17 ± 3 °C
<b>Boiling point:</b>	Not applicable, due to the dynamic equilibrium state of this product in water
<b>Evaporation rate:</b>	No data available
<b>Flash point:</b>	Not applicable, since the product only exists in aqueous solution
<b>Decomposition temperature:</b>	No data available
<b>Auto-ignition temperature:</b>	Not applicable, since the product only exists in aqueous solution
<b>Flammability:</b>	Non flammable

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<b>Explosive properties:</b>	Non explosive
<b>Oxidizing properties:</b>	Non oxidising
<b>Vapour pressure:</b>	Not applicable, since the product only exists in aqueous solution
<b>Vapour density:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Density:</b>	1.4 g/cm <sup>3</sup>
<b>Solubility:</b>	Soluble in water
<b>Partition coefficient n-octanol/water (log Pow):</b>	Not applicable

**9.2. Other information**

Surface tension is < 86.1 dynes/cm at 20 °C.

**10. SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The product is not reactive under normal conditions.

**10.2. Chemical stability**

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3. Possibility of hazardous reactions**


Possible release of carbon monoxide or carbon oxide.

**10.4. Conditions to avoid**

Avoid high temperatures.

**10.5. Incompatible materials**

- Strong acids
- Strong bases

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## 10.6. Hazardous decomposition products

No data available.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**(a) Acute toxicity:** The product has not acute toxic effects:

LD50 (oral, rat): > 2000 mg/kg bw (according to OECD Guideline 420).

**(b) Skin corrosion/irritation:** Not irritating, following the test performed in rabbits based on the Commission Directive No. 84/449/EEC.

**(c) Eye damage/irritation:** Not irritating, following the Bovine Corneal Opacity and Permeability (BCOP) test.

**(d) Respiratory or skin sensitization:** Not sensitising.

**(e) CMR – Carcinogenicity, Mutagenicity and Reproductive toxicity:** The product is not clastogenic in accordance with the test performed following the OECD Guideline 473.

**(f) STOT – single and repeated exposure:** No adverse effects are expected.

**(g) Aspiration hazard:** No data available.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

**(a) Aquatic toxicity:**

- The product is not acutely toxic to fish (according to OECD Guideline 203 and EU method C.1):  
LC50 = 617 mg/L

- The product is not toxic to aquatic invertebrates (according to OECD Guideline 202 and EU method C.2):  
LC50 = 496 mg/L


- The product is not toxic to aquatic algae (according to OECD Guideline 201 and EU method C.3):  
NOEC = 18 mg/L

- The product is not toxic to aquatic microorganisms (according to OECD Guideline 209 and EU method C.11):  
LC50 > 100 mg/L

**(b) Sediment toxicity:** No data available.

**(c) Terrestrial toxicity:** No data available.

### 12.2. Persistence and degradability

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The product is readily biodegradable, and therefore, the product is not persistent.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

The product has a low potential to adsorb to soil.

**12.5. Results of PBT and vPvB assessment**

This product is not conclusively a persistent, bioaccumulating nor toxic (PBT), or very persistent, very bioaccumulative (vPvB) product.

**12.6. Other adverse effects**

No data available.

**13. SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose of waste materials at a licensed site.  
 Rinse with water the used containers three times and empty the water into the application tank.  
 Do not burn containers, even after use. Disable the used packaging and dispose of content and/or empty containers in accordance with local, regional, national, and/or international regulations.

**14. SECTION 14: Transport information**

**ADR/RID:**  
 Not classified as hazardous for transport within the transport regulations.


**IMDG:**  
 Not classified as hazardous for transport within the transport regulations.

**ICAO/IATA:**  
 Not classified as hazardous for transport within the transport regulations.

**15. SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the product**



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- European Regulation (EC) No.1272/2008 on classification, labelling and packaging of substances and mixtures.

- European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

- Commission Regulation (EU) No. 453/2010, amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this product.

## 16. SECTION 16: Other information

### Revision of this document:

Revision number: 4.0

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Added, deleted or revised information: Update of sections 2 and 15 according to Annex II of regulation (EU) 453/2010.

### Legend to abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

DL50: Lethal dose 50%

DNEL: Derived No Effect Level

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.2

IMDG: International Maritime Dangerous Goods.

LC50: Lethal concentration 50%

NOEC: No observed effect concentration

PBT: Persistent, Bioaccumulative and Toxic.

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STOT: Specific Target Organ Toxicity.

vPvB: Very Persistent and very Bioaccumulative.

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**Key literature references and sources for data:**

ESIS: European Chemical Substances Information System.

ECHA: European Chemicals Agency <http://echa.europa.eu/>

Classification and Labelling Inventory Database <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Institute for Health and Consumer Protection (European Commission): <http://ihcp.jrc.ec.europa.eu/>

Instituto Nacional de Seguridad e Higiene en el trabajo <http://www.insht.es>

Riskquim - <http://riskquim.insht.es:86/riskquim/clp/>

Chemical Safety Report - TRADE CORPORATION INTERNATIONAL, S.A.U.

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