

Safety Data Sheet

According to Regulation (EC) No 2015/830



Oligo Boron 150g/L Liquid

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: **Van Iperen Oligo Boron 150g/L Liquid**

1.2. Provided applications and not recommended applications of the mixture

Fertilizers intended for agricultural use. Designed for professional use.
Do not use for unintended purposes.

1.3. Details of the supplier of the safety data sheet

Van Iperen International BV
Smidsweg 24
3273 LK Westmaas - Nederland
T +31 (0) 186 578 888 - F +31 (0) 186 573 452
info@iperen.com - www.vaniperen.com

1.4. Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under regulation (EC) No 1272/2008 [CLP]: not classified

Physical hazards: not classified
Health hazards: not classified
Environmental hazards: not classified

2.2. Labelling elements: under regulation (EC) No 1272/2008

Hazard pictogram (-s): none
Signal word: none
Hazard statements: none

Precautionary statements:

P262 Avoid contact with eyes, skin or clothing
P264 Wash hands thoroughly after handling

Additional information on hazards (EU): none.

2.3. Other hazards

The product does not meet the criteria for PBT and vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Monoethanolamine borate. EC No: 701-024-0
Reg No: 01-2119548394-33-0044
Contains no chemicals that are hazardous to the health and the environment.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of the first-aid facilities

General notes: get medical attention immediately if a medical condition occurs and does not resolve it. When inhaled: get out into the fresh air. Sit or lay down. If you feel worse, seek medical attention.

In the event of contact with skin: remove contaminated clothing and footwear. Wash affected areas with large amounts of water. Wash clothing before re-use. If adverse effects occur and persist, seek medical attention immediately.
In the event of contact with eyes: wash eyes for 15 minutes with water, keeping eyelids raised. Remove contact lenses if possible. If redness or itching persists, seek medical attention immediately.
In the event of swallowing: rinse mouth with water. Drink 1-2 glasses of water. If the patient feels unwell, seek medical attention.

4.2. Most important symptoms and effects (both acute and delayed)

Redness, irritation. Ingestion may cause gastrointestinal irritation, vomiting and diarrhea.

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

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In all cases of poisoning or other symptoms of sickness, seek medical advice immediately and show this safety data sheet or fertilizer label.

SECTION 5: Firefighting measures

General fire hazards: product is not flammable. Remove all outsiders from the fire area.

5.1. Extinguishing media

Suitable fire-extinguishing means: depends on the fire environment. In case of fire use finely sprayed water, CO₂ foam.

Unsuitable fire-extinguishing means:

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: exposure to high temperatures may produce harmful fumes containing hazardous decomposition / combustion products.

5.3. Advice for firefighters

Special protective equipment for fire-fighters: in case of fire, wear self-contained breathing apparatus and wear protective clothing for firefighters. Special firefighting measures: move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool tanks with plenty of water also after the fire has been extinguished. Prevent material from entering drains, surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Non-support employees: ensure adequate ventilation of work rooms. Use personal protective equipment - protective clothing, gloves, masks for respiratory protection. Avoid contact with eyes, skin or clothing.

Emergency measures: ensure adequate ventilation. Remove affected persons from contaminated area. If adverse effects occur and persist, seek medical attention.

6.1.2. Assistance to suppliers: only personnel who are liquidating the consequences of the accident may remain in the premises. Remove any flammable materials and any sources of ignition. Disconnect electrical appliances. Use special clothing and equipment.

6.2. Environmental precautions: avoid release to the environment, soil, surface water and sewerage networks. Inform the regional environmental department if the product has been released into the environment (sewage, water, soil or air).

6.3. Isolation and cleaning procedures and means

6.3.1. For isolation: restrict access to contaminated area. Stop product flow if it is not risky.

6.3.2. For cleaning: minor spills: absorb spillage with non-combustible, absorbent material. Use non-combustible material, such as sand or soil, to collect the product and place in an appropriate container for later disposal. Large spills: remove with pump or tank truck with vacuum pump to storage tanks. Contain collected, sucked or stacked material in special sealed containers. Wash the residue with water.

6.3.3. Other information: ensure that waste and contaminated materials are collected and disposed of in a properly labelled container as soon as possible.

6.4. Reference to other sections

For personal protection see section 8. For waste management, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe management

Work in well-ventilated areas. Wear working clothes, protective gloves and use protective goggles, as well as respiratory protection means. Observe the occupational safety and health requirements. Avoid fertilizer's contact with eyes, skin, clothing. Do not swallow the fertilizer. Avoid inhaling vapour or spray. Wash hands after work and before breaks. During work, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers: store in a well-ventilated place, in airtight, mechanically durable, chemically resistant, labelled packages. Do not store near food, drink or animal feed. Keep away from heat, explosive materials, incompatible materials (e.g. alkalis), open flames, hot surfaces. Do not smoke in storage area. Keep away from sources of ignition. Protect from direct sunlight. Store in the original package. Floors in the storage room must be waterproof and easy to clean.

7.3. Specific end use

Liquid fertilizers for agricultural purposes. The information on the use and other information is indicated on the fertilizer label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limits in the work environment have not been established in accordance with HN 23: 2011

8.1.2. Biological limit values: no biological limit values have been set.

DNELs: no data available

PNECs: no data available

8.2. Exposure controls

8.2.1. Appropriate technical management means: good ventilation of warehousing and work premises.

8.2.2. Personal protective equipment:

General information: wear personal protective equipment. Separate working clothes. Personal protective equipment should be selected according to CEN standards and in consultation with the supplier of the personal protective equipment.

Eyes and (or) face protection: wear safety glasses with side shields or a face shield (tight fitting safety goggles, e.g. EN 166) if there is a risk of splashing.

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Skin and hands protection: wear chemical resistant and liquid impervious gloves (EN 374).

Other skin protection: wear full-body, acid-resistant working clothes.

Respiratory protection: good general exhaust ventilation. If aerosols, mists or vapours are formed and ventilation is inadequate, wear respiratory protection according to LST EN 149.

Protection against thermal hazards: not applicable.

Hygiene measures: do not eat, drink or smoke when using. Wash hands before breaks and at the end of work. Wash contaminated clothing before re-use. Personal clothing and work clothing must be stored separately. Follow good occupational hygiene and safety practices.

8.3. Environmental exposure control

Do not pour fertilizers or their solutions into open water or drinking water sources.

SECTION 9: Physical and chemical properties

9.1 Information on main physical and chemical properties

Appearance:

State of aggregation: liquid
Colour: clear to amber/ light brown

Odour: odourless

Odour threshold: no data

pH: 8,2-8,7 (10% solution in water)

Melting point/ freezing point: no data

Initial boiling point and boiling flash point: no data

Flash point: no data

Evaporation rate: no data

Relative density: 1,32-1,37 g/cm³

Solubility: 100% in water

Partition coefficient (n-octanol / water): no data

Spontaneous ignition point: does not self-ignite

Decomposition temperature: no data

Viscosity: no data

Explosion (explosive) features: non-explosive

Oxidizing features: no data

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

Under normal conditions of storage, transport and use, the mixture is stable.

10.2. Chemical stability

When used as intended and in accordance with storage rules and safety requirements, the mixture is stable.

10.3. Possibility of hazardous reactions

Reaction with alkalis, acids.

10.4. Conditions to avoid

High or low surrounding temperature.

10.5. Incompatible substances

Avoid contact with strong oxidizing agents, acids and alkalis. Flammable substances.

10.6. Hazardous decomposition products

Toxic compounds can be released in the fire: carbon monoxide/ carbon dioxide, nitrogen oxides, etc.

SECTION 11: Toxicological information

11.1. Information on toxic effects

- a) Acute toxicity: not classified.
- b) Skin corrosion and/ or irritation: not classified.
- c) High eye irritation and/ or eye irritation: not classified.
- d) Respiratory sensitization: not classified.
- e) Skin sensitization: not classified.
- f) Mutagenic effects on sex cells: no data available.
- g) Carcinogenicity: no data available.
- h) Reproductive toxicity: no data available.
- i) STOT (single exposure): no data available.
- j) STOT (repeated exposure): no data available.
- k) Risk of aspiration: not applicable.

Information on toxic effects of components: no data available.

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SECTION 12: Ecological information

12.1. Toxicity/ Eco toxicity to aquatic life

MEA Polyborate CAS No 26038-87-9

Fish: LC50 - 617 mg/l/96h (Cyprinus carpio) Invertebrates: EC50/LC50 - 496 mg/l/48h (Daphnia magna)

Algae: EC50 - 67 mg/l/72h (Pseudokirchnerella subcapitata)

12.2. Persistence and degradability

Easily biodegradable

12.3. Bio accumulative potential

No data available

12.4. Soil mobility

No data available

12.5. PBT and vPvB assessment results

Substance or mixture without PBT or vpvb properties

12.6. Other undesirable effects

None

General provisions: in accordance with general environmental principles, it is forbidden to discharge mixture into open water bodies.

SECTION 13: Disposal considerations

13.1. Waste management methods

Follow "Waste Management Regulations" (1999, No. 63-2065 and subsequent amendments) approved by order No 217 of the Minister of Environment of the Republic of Lithuania of 14 July 1999. Dispose of waste and container in accordance with local regulations.

Product waste disposal:

Waste code: 02 01 09 (agrochemical wastes other than those mentioned in 02 01 08);

Handling contaminated packaging:

The packaging with the remaining product shall be disposed of together with the waste.

Packaging Waste Code: 15 01 02 (plastic packaging);

15 01 10 (packages containing residues of hazardous chemicals or that are contaminated with hazardous chemicals).

SECTION 14: Transport information

The product is not classified as dangerous substance/ mixture and is not subject to the requirements of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), Rail (RID), Sea (IMDG), Inland Waterways (ADN) and Air (ICAO / IATA).

14.1. UN number

None

14.2. Correct UN cargo name

None

14.3. Carriage hazard class

None

14.4. Packaging group

None

14.5. Environmental hazard (MARINE POLLUTANT)

No

14.6. Special precautions for users

Read safety instructions, safety data sheet and information on emergency procedures before use

14.7. Transport in bulk according to Annex II to MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental legislation specific for the substance or mixture

Regulation (EC) No 1782/2003 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH);

Regulation (EC) No 1782/2003 of the European Parliament and of the Council 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulation);

Commission Regulation (EU) No 453/2010 partly amending the REACH Regulation;

Commission Regulation (EU) No 830/2015 amending in part the REACH Regulation;

Lithuanian Hygiene Norm HN 23-2011 "Limits for Occupational Exposure to Chemical Substances." General requirements for measurement and impact assessment";

The Regulations on Waste Management approved by the Republic of Lithuania Minister of Environment Order o No.217 of 14 July 1999 (summary

wording from 6 December 2018);

European Agreement on the International Carriage of Dangerous Goods by Road (ADR), wording of 2015. Regulation (EC) of the European Parliament and of the Council 2003/2003 on fertilizers.

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15.2. Chemical Safety Assessment

None

SECTION 16: Other information

The meanings of hazard statements and pictograms that are presented in Chapter 3 of this SDS are as follows: none

Additional information on hazards (EU): none.

Acronyms:

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

IMDG - International Maritime Dangerous Goods. IATA- International Air Transport Association.

IMO - International Maritime Organization. vPvB - Very persistent and very bio accumulative substances. PBT - Persistent, bio accumulative and toxic substances.

LC50 - Fatal concentration in 50 % of the studied population.

LD50 - Fatal dose in 50% of the population studied (average fatal dose). CAS - Chemical Abstract Service. CEN - European Committee for Standardization.

STOT - Specific target organ toxicity.

PNEC(s) - Predicted no-effect concentration SDL - Safety data sheet.

References to major literature and data sources: - Data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEM), International Laboratory Organization (ILO), TOXNET.

Company disclaimer

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.