Safety Data Sheet
According to Regulation (EC) No 2015/830

Oligo Silali Mix

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

1.1. Product identifier
Product form : Mixture
Product name : Oligo Silali Mix
Product code : 300.274.000

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Main use category : Industrial use,Professional use
Use of the substance/mixture :Fertilizers

1.2.2. Uses advised against
No additional information available

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 according to Regulation (EC) No. 1272/2008 [CLP]
Reproductive toxicity, Category 1B
H360
Full text of hazard classes and H-statements : see section 16

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)

GHS08
CLP Signal word : Danger
Hazardous ingredients :Boric acid
Hazard statements (CLP) :H360FD - May damage fertility. May damage the unborn child.
Precautionary statements (CLP) : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear Protective gloves, Protective clothing, Eye protection, Face shield. P308+P313 - IF exposed or concerned: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents and container to Remove to an authorized waste treatment plant.
Extra phrases : Restricted to professional users

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Boric acid substance listed as REACH Candidate	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2 (REACH-no) 01-2119486683-25	5.5 - 7	Repr. 1B, H360FD
Cu-EDTA	(CAS-No.) 14025-15-1 (EC-No.) 237-864-5 (REACH-no) 01-2119963944-23	5 - 6	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Boric acid	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2 (REACH-no) 01-2119486683-25	(C >= 5.5) Repr. 1B, H360FD

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation :Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse with water. Take off immediately all contaminated clothing. Wash with water and soap. Take victim to a doctor/medical service if irritation persists.
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist.
First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after skin contact : Contact during a long period may cause light irritation.
Symptoms/effects after eye contact : Redness of the eye tissue. Pain. Lacrimation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Making extinguishing agents environment-friendly. Water spray.
Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible.
Explosion hazard : Product is not explosive.
Hazardous decomposition products in case of fire : On heating/burning: release of toxic and corrosive gases/vapours nitrous vapours.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind.
Firefighting instructions : Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protection during firefighting : Fire fighters have to ware suited clothing and an independent repertory device (SCBA) that covers the face completely with pressure. Clothing for fire fighters (including helmets, protective boots and gloves) according to European Regulation EN 469, give a basic protection level for an incident with chemicals.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Avoid inhalation of product. Avoid raising dust. Mark the danger area. Prevent spreading in sewers.
6.1.1. For non-emergency personnel
Protective equipment : Concerning personal protective equipment to use, see section 8.
Emergency procedures :Clear the danger area. Mark the danger area. Ensure adequate ventilation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Notify experts.
Measures in case of dust release : In case of dust production: keep upwind. Ventilate area.
6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Clean spills promptly.

6.3. Methods and material for containment and cleaning up

For containment : Clean spills promptly. Stop leak if safe to do so. Knock down/dilute dust cloud with water spray.
Methods for cleaning up : Mechanically recover the product. Minimize generation of dust. Scoop solid spill into closing containers. Wash away remainder with plenty of water. Not in groundwater, surfacewater or sewerage.

6.4. Reference to other sections

Concerning personal protective equipment to use, see item 8. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Keep away from naked flames/heat. Comply with the legal requirements.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. The substance must be handled in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container closed when not in use. Provide local exhaust or general room ventilation. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Special rules on packaging : Store in a closed container. correctly labelled. meet the legal requirements.
Packaging materials : plastics. paper with plastic inner lining. glass.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:
Facilities: shower, eye shower. Provide sufficient air exchange and/or exhaust.
Hand protection:
Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber	6 (> 480 minutes)			EN 374

Eye protection:
Eye protection

Type	Use	Characteristics	Standard
Safety glasses			EN 166

Skin and body protection:
Protective clothing
Respiratory protection:
Dust formation: dust mask

Device	Filter type	Condition	Standard
Filtering Half-face mask	Type P2		EN 143

Consumer exposure controls:
Avoid contact during pregnancy/while nursing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	Solid
Appearance :	Granular powder.
Colour :	Mixture.
Odour :	Odourless.
Odour threshold :	No data available
pH :	6 - 8
pH solution :	1 %
Relative evaporation rate (butylacetate=1) :	No data available
Melting point :	No data available
Freezing point :	No data available
Boiling point :	No data available
Flash point :	No data available
Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
Flammability (solid, gas) :	No data available
Vapour pressure :	No data available
Relative vapour density at 20 °C :	No data available
Relative density :	No data available
Solubility :	Soluble in water.

Log Pow :	No data available
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available
Explosive properties :	Product is not explosive.
Oxidising properties :	Not oxidizing.
Explosive limits :	No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is stable at normal handling and storage conditions.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Prevent moisture contact. Direct sunlight.

10.5. Incompatible materials
Strong bases. Strong acids.

10.6. Hazardous decomposition products
On heating/burning: release of toxic and corrosive gases/vapours nitrous vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
Boric acid (10043-35-3)
LD50 oral rat 2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit > 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)
Cu-EDTA (14025-15-1)

LD50 oral rat	890 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.32 mg/l/4h OECD 436
Skin corrosion/irritation :	Not classified pH: 6 – 8
Serious eye damage/irritation :	Not classified pH: 6 – 8
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	May damage fertility or the unborn child.
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified

SECTION 12: Ecological information

12.1. Toxicity
Boric acid (10043-35-3)

LC50 fish 1	50 - 100 mg/l
EC50 Daphnia 1	133 mg/l

Cu-EDTA (14025-15-1)

LC50 fish 1	555 mg/l 96h

12.2. Persistence and degradability
Boric acid (10043-35-3)

Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

12.3. Bioaccumulative potential
Boric acid (10043-35-3)

BCF fish 2	< 0.1 (BCF; 60 days; Oncorhynchus tshawytscha; Flow-through system; Fresh water; Weight of evidence)
Log Pow	-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Cu-EDTA (14025-15-1)
Log Kow < 4.5

12.4. Mobility in soil
Boric acid (10043-35-3)
Ecology – soil May be harmful to plant growth, blooming and fruit formation.
Cu-EDTA (14025-15-1)
Ecology – soil No data available.

12.5. Results of PBT and vPvB assessment
Component
Boric acid (10043-35-3)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. Do not discharge into drains or rivers. Remove to an authorized waste treatment plant.
Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations.

SECTION 14: Transport information

Not regulated for transport

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3)
Contains no REACH Annex XIV substances
15.1.2. National regulations
Ensure all national/local regulations are observed
Netherlands
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid :Boric acid is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling :Boric acid is listed
15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

CLP	CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
SDS	SDS = Safety Data Sheet
REACH	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose

Data sources : ECHA Website: Information on Registered Substances Handbook of Chemistry and Physics CRC Press Inc Information suppliers BIG-database.
Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.

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.