

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

1.1. Product identifier

Product form : Liquid
Product name. : Agrocid Super™ Oligo
Product code : 249

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
Industrial/Professional use spec : See product bulletin for detailed information

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

CID LINES NV
Waterpoortstraat, 2
B-8900 Ieper - Belgique
T + 32 57 21 78 77 - F +32 57 21 78 79
sds@cidlines.com - <http://www.cidlines.com>

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120Brussels	+32 70 245 245
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ERLondon	0870 243 2241
Worldwide	www.who.int/ipcs/poisons/centre/directory/en		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

C; R34
R52/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A). Serious eye damage/eye irritation Category 1. Hazardous to the aquatic environment - Chronic Hazard Category 3.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger
Hazardous ingredients : Formic acid, Propionic acid
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP) : P260 - Do not breathe dust, fume, gas, mist, vapours, spray
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 - IF ON SKIN (or hair): Remove immediately contaminated clothing., Wash with plenty of soap and water
P305 - IF IN EYES: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P321 - Specific treatment.

Agrocid Super™ Oligo

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols :



C - Corrosive

R-phrases :

R34 - Causes burns
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases :

S2 - Keep out of the reach of children
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 - After contact with skin, wash immediately with plenty of water
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Formic acid	(CAS No)64-18-6 (EC no)200-579-1 (EC index no)607-001-00-0 (REACH-no)01-2119491174-37	35 - 50	C; R35
Propionic acid	(CAS No)79-09-4 (EC no)201-176-3 (EC index no)607-089-00-0 (REACH-no)01-2119486971-24	15 - 30	C; R34
Lactic acid	(CAS No)79-33-4 (EC no)201-196-2 (REACH-no)01-2119474164-39	5 - 15	Xi; R41 Xi; R38
Citric acid monohydrate	(CAS No)5949-29-1 (EC no)201-069-1 (REACH-no)01-2119457026-42	1 - 5	Xi; R36
Zinc chloride	(CAS No)7646-85-7 (EC no)231-592-0 (EC index no)30-003-00-2	0,1 - 1	Xn; R22 C; R34 N; R50/53
Dicopper chloride trihydroxide	(CAS No)1332-65-6 (EC no)215-572-9	0,1 - 1	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Formic acid	(CAS No)64-18-6 (EC no)200-579-1 (EC index no)607-001-00-0 (REACH-no)01-2119491174-37	35 - 50	Skin Corr. 1A, H314
Propionic acid	(CAS No)79-09-4 (EC no)201-176-3 (EC index no)607-089-00-0 (REACH-no)01-2119486971-24	15 - 30	Skin Corr. 1B, H314
Lactic acid	(CAS No)79-33-4 (EC no)201-196-2 (REACH-no)01-2119474164-39	5 - 15	Skin Irrit. 2, H315 Eye Dam. 1, H318
Citric acid monohydrate	(CAS No)5949-29-1 (EC no)201-069-1 (REACH-no)01-2119457026-42	1 - 5	Eye Irrit. 2, H319
Zinc chloride	(CAS No)7646-85-7 (EC no)231-592-0 (EC index no)30-003-00-2	0,1 - 1	Skin Corr. 1B, H314 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Dicopper chloride trihydroxide	(CAS No)1332-65-6 (EC no)215-572-9	0,1 - 1	Not classified

Agrocid Super™ Oligo

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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| First-aid measures after inhalation | : Remove victim to fresh air. Allow the victim to rest. Obtain medical attention if breathing difficulty persists. |
| First-aid measures after skin contact | : Remove contaminated clothing and shoes. Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Seek medical attention immediately. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label. |

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | : Carbon dioxide. Dry chemical. Foam. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

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|-------------|------------------|
| Fire hazard | : Not flammable. |
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5.3. Advice for firefighters

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| Firefighting instructions | : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |
| Protection during firefighting | : Wear proper protective equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| General measures | : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. |
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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| Methods for cleaning up | : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. Recover the cleaning water for later disposal. |
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6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Precautions for safe handling | : Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

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| Storage conditions | : Protect from freezing. Keep at temperature not exceeding 50 °C. Keep container closed when not in use. |
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Agrocid Super™ Oligo

Safety Data Sheet

according to Regulation (EC) No. 453/2010

8.2. Exposure controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation.
- Personal protective equipment : Gloves. Protective clothing. Protective goggles.



- Hand protection : Chemical resistant PVC gloves (to European standard EN 374 or equivalent).
- Eye protection : Eye protection should only be necessary where liquid could be splashed or sprayed.
- Skin and body protection : If skin contact or contamination of clothing is likely, protective clothing should be worn.
- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- Consumer exposure controls : Ingestion unlikely.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear.
- Colour : Green.
- Odour : Acidic.
- Odour threshold : No data available
- pH : ca. 2,5 (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
- Self 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
- Density : ca. 1,13 kg/l
- Solubility : Water: 100 %
- Log Pow : No data available
- Log Kow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive properties : No data available
- Oxidising properties : No data available
- Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong alkali.

Agrocid Super™ Oligo

Safety Data Sheet

according to Regulation (EC) No. 453/2010

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Irritation	: Not classified pH: ca. 2,5 (1%)
Corrosivity	: Causes burns. pH: ca. 2,5 (1%)
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: This product contains hazardous components for the environment. May cause long-term adverse effects in the aquatic environment.
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No	: 3265
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14.2. UN proper shipping name

Proper Shipping Name	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport document description	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid, Propionic acid), 8, III, (E)

14.3. Transport hazard class(es)

Class (UN)	: 8
Hazard labels (UN)	: 8



14.4. Packing group

Packing group (UN)	: III
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14.5. Environmental hazards

Other information	: Clean up even minor leaks or spills if possible without unnecessary risk.
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Agrocid Super™ Oligo

Safety Data Sheet

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14.6. Special precautions for user

Special transport precautions : The driver shall not attempt to deal with any fire of the load. No naked lights. No smoking. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (ADR) : C3

Orange plates :



Tunnel restriction code : E

LQ : LQ07

Excepted quantities (ADR) : E1

14.6.2. Transport by sea

Ship Safety Act : Corrosive substances(Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)

Port Regulation Law : Hazardous materials/Corrosive substance (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)

MFAG-No : 153

14.6.3. Air transport

Civil Aeronautics Law : Corrosive substances(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

Water hazard class (WGK) : 1 - slightly hazardous to water

15.2. Chemical safety assessment

No additional information available

Agrocid Super™ Oligo

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R22	Harmful if swallowed
R34	Causes burns
R35	Causes severe burns
R36	Irritating to eyes
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU CLP DPD

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product