

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## ABAMECTIN 18 g/L EW

Version	Revision Date:	SDS Number:	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** ABAMECTIN 18 g/L EW

#### Other means of identification

**Product code** 50000641

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Use of the Sub- stance/Mixture</b>	Insecticide
<b>Recommended restrictions on use</b>	Use as recommended by the label.

#### 1.3 Details of the supplier of the safety data sheet

**Supplier Address** FMC Agricultural Solutions A/S  
Thyborønvej 78  
DK-7673  
Denmark

Telephone: +45 9690 9690  
Telefax: +45 9690 9691  
E-mail address: SDS-Info@fmc.com (E-Mail General Information)

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Denmark: 45-69918573 (CHEMTREC)

Medical emergency:  
Denmark: +45 82 12 12 12

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Eye irritation, Category 2	H319: Causes serious eye irritation.

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Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

- P260 Do not breathe mist or vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### **Response:**

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

#### **Hazardous components which must be listed on the label:**

Distillates (petroleum), hydrotreated middle abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

#### **Additional Labelling**

Restricted to professional users.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
octan-1-ol	111-87-5 203-917-6	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 2,5 - < 10
Distillates (petroleum), hydrotreated middle	64742-46-7 265-148-2 649-221-00-X	Carc. 1B; H350 Asp. Tox. 1; H304	>= 1 - < 10
Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-	114535-82-9	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 2,5 - < 10
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2 606-143-00-0	Acute Tox. 2; H300 Acute Tox. 1; H330 Repr. 2; H361d STOT RE 1; H372 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000  specific concentration limit	>= 1 - < 2,5

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		STOT RE 1; H372 ≥ 5 % STOT RE 2; H373 0,5 - < 5 %	
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                         |  |
|-------------------------|--|
| General advice          | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.   |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed            | : Induce vomiting immediately and call a physician.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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

- |       |   |
|-------|---|
| Risks | : Harmful if swallowed.<br>Causes serious eye irritation.<br>May cause damage to organs through prolonged or repeated exposure. |
|-------|---|

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

- |           |                          |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Dry chemical, CO <sub>2</sub> , water spray or regular foam. |
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Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.

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Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Distillates (petroleum), hydrotreated middle	64742-46-7	GV (mist and particles)	1 mg/m <sup>3</sup>	DK OEL

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Distillates (petroleum), hydrotreated middle	Workers	Inhalation	Long-term systemic effects	2,73 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	5,58 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,97 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
methyl octanoate	Fresh water	0,002 mg/l

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	Intermittent use (freshwater)	47,6 µg/l
	Marine water	180 ng/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0,028 mg/kg dry weight (d.w.)
	Marine sediment	0,003 mg/kg dry weight (d.w.)
	Soil	10 mg/kg dry weight (d.w.)
	Oral	66,6 mg/kg
	Marine water	0 mg/l
octan-1-ol	Fresh water	200 µg/l
	Marine water	20 µg/l
	Sewage treatment plant	55,5 mg/l
	Fresh water sediment	2,1 mg/kg dry weight (d.w.)
	Marine sediment	0,210 mg/kg dry weight (d.w.)
	Soil	1,6 mg/kg dry weight (d.w.)
Distillates (petroleum), hydrotreated middle	Oral	9,33 mg/kg
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	Fresh water	0,35 ng/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

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Colour	:	off-white
Odour	:	hydrocarbon-like, slight, aromatic
Initial boiling point and boiling range	:	> 104 °C
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 104 °C
Auto-ignition temperature	:	> 400 °C
pH	:	6,5 (25 °C)
Viscosity		
Viscosity, dynamic	:	15.000 mPa.s
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	0,95 g/cm <sup>3</sup> (20 °C)

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-ignition	:	> 400 °C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions



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Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Not applicable

### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.  
No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity : LD50 (Rat): 1.260 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 5,62 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### Components:

##### octan-1-ol:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 2,05 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: US EPA Test Guideline OPPTS 870.1300  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

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### Distillates (petroleum), hydrotreated middle:

- Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5,53 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials
- Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

### Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:

- Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

- Acute oral toxicity : LD50 (Rat): 340 mg/kg  
Method: OECD Test Guideline 425
- Acute inhalation toxicity : LC50 (Rat, female): 0,074 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
  
LC50 (Rat, male): 0,052 - 0,54 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Not classified based on available information.

### Product:

- Method : OECD Test Guideline 404  
Result : Mild skin irritation
- Remarks : May cause skin irritation and/or dermatitis.

### Components:

#### octan-1-ol:

- Species : Rabbit  
Method : OECD Test Guideline 404

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Result : slight irritation

### Distillates (petroleum), hydrotreated middle:

Species	: Rabbit
Result	: No skin irritation
Remarks	: Based on data from similar materials

### Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Method	: OECD Test Guideline 404
Result	: slight irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Product:

Method	: OECD Test Guideline 405
Result	: irritating

### Components:

#### octan-1-ol:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irritation to eyes, reversing within 21 days

### Distillates (petroleum), hydrotreated middle:

Species	: Rabbit
Result	: No eye irritation
Remarks	: Based on data from similar materials

### Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Eye irritation

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Method	: OECD Test Guideline 405
Result	: slight irritation

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### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Product:

Method	: OECD Test Guideline 429
Result	: Not a skin sensitizer.

#### Components:

##### octan-1-ol:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
Remarks	: Based on data from similar materials

##### Distillates (petroleum), hydrotreated middle:

Test Type	: Buehler Test
Species	: Guinea pig
Result	: Does not cause skin sensitisation.
Remarks	: Based on data from similar materials

##### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### octan-1-ol:

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative  Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Oral Method: OECD Test Guideline 474 Result: negative

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Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Distillates (petroleum), hydrotreated middle:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Germ cell mutagenicity- Assessment : No genotoxic potential

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Distillates (petroleum), hydrotreated middle:**

Species : Mouse  
Application Route : Dermal  
Exposure time : 78 weeks  
Result : negative  
Remarks : Based on data from similar materials

### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **octan-1-ol:**

Effects on fertility : Test Type: one-generation reproductive toxicity  
Species: Rat, male and female  
Application Route: Oral  
Dose: 10, 100, 1000 mg/kg bw/day  
General Toxicity - Parent: NOAEL: 1.000 mg/kg bw/day  
General Toxicity F1: NOAEL: 1.000 mg/kg bw/day  
Result: negative

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Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 0,130,650,975,1300mg/kgbw/day  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: LOAEL: 650 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: 1.300 mg/kg bw/day  
Symptoms: Maternal effects  
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### Distillates (petroleum), hydrotreated middle:

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Ingestion  
General Toxicity F1: NOAEL: 1.000 mg/kg bw/day  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Dermal  
General Toxicity Maternal: LOAEL: 8 mg/kg bw/day  
Developmental Toxicity: LOAEL: 125 mg/kg bw/day  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
Remarks: Based on data from similar materials

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### STOT - single exposure

Not classified based on available information.

### Components:

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Remarks : No significant adverse effects were reported

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Product:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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### Components:

#### **octan-1-ol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Target Organs : Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### **Repeated dose toxicity**

#### Components:

##### **octan-1-ol:**

Species : Rat, male  
NOAEL : 1127 mg/kg bw/day  
Application Route : Oral  
Exposure time : 13 weeks  
Dose : 182, 374, 1127mg/kg/day

Species : Rat, female  
NOAEL : 1243 mg/kg bw/day  
Application Route : Oral  
Exposure time : 13 weeks  
Dose : 216, 427, 1243mg/kg/day

##### **Distillates (petroleum), hydrotreated middle:**

Species : Rat, male  
LOAEL : 125 mg/kg  
Application Route : Oral - gavage  
Exposure time : 90 d  
Remarks : Based on data from similar materials

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Species : Dog  
LOEL : 0,5 mg/kg  
Application Route : Oral  
Exposure time : 18 weeks  
Method : OECD Test Guideline 409

Species : Rat  
LOAEC : 0,0027 mg/l  
Application Route : Inhalation  
Exposure time : 30 d

### **Aspiration toxicity**

Not classified based on available information.

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### Components:

#### **Distillates (petroleum), hydrotreated middle:**

May be fatal if swallowed and enters airways.

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

No aspiration toxicity classification

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Further information**

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### Components:

##### **octan-1-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 13,3 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 20 mg/l  
aquatic invertebrates  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC10 (Desmodesmus subspicatus (green algae)): 4,2 mg/l  
plants  
Exposure time: 48 h  
Test Type: static test



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EC50 (Desmodesmus subspicatus (green algae)): 6,5 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to microorganisms : (Protozoa): 44 mg/l  
Exposure time: 72 h  
Test Type: Cell multiplication inhibition test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC: 1 mg/l  
aquatic invertebrates (Chronic toxicity) Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Distillates (petroleum), hydrotreated middle:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: water accommodated fractions (WAF)

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l  
aquatic invertebrates Exposure time: 48 h  
Remarks: water accommodated fractions (WAF)

Toxicity to algae/aquatic : NOEL (Pseudokirchneriella subcapitata (microalgae)): > 100  
plants mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOELR: 10 mg/l  
aquatic invertebrates (Chronic toxicity) Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 100 - 500 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
plants Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,034 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.1 µg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 70 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10.000

M-Factor (Chronic aquatic toxicity) : 10.000

Toxicity to soil dwelling organisms : LC50: 16 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: 0,00083 µg/bee  
Exposure time: 48 h  
Species: Apis mellifera (bees)

LD50: > 2.000 mg/kg  
Species: Coturnix japonica (Japanese quail)

### 12.2 Persistence and degradability

#### Components:

##### **octan-1-ol:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 82,2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **Distillates (petroleum), hydrotreated middle:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 30 - 40 %  
Method: OECD Test Guideline 302B

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Biodegradability : Result: Not readily biodegradable.

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Remarks: It undergoes degradation in the environment and in waste water treatment plants.

### 12.3 Bioaccumulative potential

#### Components:

##### **octan-1-ol:**

Partition coefficient: n- : log Pow: 3,5 (23 °C)  
octanol/water pH: 5,7

##### **Distillates (petroleum), hydrotreated middle:**

Partition coefficient: n- : log Pow: 7 (20 °C)  
octanol/water Method: QSAR

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Bioaccumulation : Species: Danio rerio (zebra fish)  
Bioconcentration factor (BCF): 54  
Remarks: See section 9 for octanol-water partition coefficient.  
Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 5,5  
octanol/water

### 12.4 Mobility in soil

#### Components:

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Distribution among environ- : Remarks: Mobile in soils  
mental compartments

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### 12.7 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Waste, residues, etc. must be collected, stored and disposed of in tightly closed container labeled: "Contains a substance that is covered by the Danish health and safety regulation in terms of cancer risk."

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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**IATA** : N.O.S.  
(Abamectin)  
: Environmentally hazardous substance, liquid, n.o.s.  
(Abamectin)

### 14.3 Transport hazard class(es)

**ADN** : 9  
**ADR** : 9  
**RID** : 9  
**IMDG** : 9  
**IATA** : 9

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

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### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

Distillates (petroleum), hydrotreated middle (Number on list 28)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

### Other regulations:

When evaluating a workplace, measures must be taken to ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding (cf. The Danish Working Environment Authority's Executive Order on The Performance of Work)

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

The substance/mixture is subject to the provisions of BEK nr. 1795 of 18/12/2015 (as amended) "Executive order on Measures to Protect Workers from the Risks related to Exposure to Carcinogenic Substances and Materials at Work". The work with this substance/mixture may pose a cancer risk. : Distillates (petroleum), hydrotreated middle; Gasoil — unspecified

### The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  Poly(oxy-1,2-ethanediyl), .alpha.-[2,4,6-tris(1-phenylethyl)phenyl]-.omega.-hydroxy-, phosphate, potassium salt abamectin (combination of avermectin B1a and avermectin B1b) (ISO)
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

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### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

## SECTION 16: Other information

### Full text of H-Statements

H300	: Fatal if swallowed.
H304	: May be fatal if swallowed and enters airways.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H350	: May cause cancer.
H361d	: Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
STOT RE	: Specific target organ toxicity - repeated exposure
DK OEL	: Denmark. Occupational Exposure Limits
DK OEL / GV	: Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of



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Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Acute Tox. 4	H302
Eye Irrit. 2	H319
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment

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