

SAFETY DATA SHEET

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



ACRINATHRIN 9 g/l + ABAMECTIN 5 g/l EW

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	23.05.2023	50000899	Date of first issue: 23.05.2023

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

1.1 Product identifier

Product name ACRINATHRIN 9 g/l + ABAMECTIN 5 g/l EW

Other means of identification

Product code 50000899

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

Use of the Sub- stance/Mixture	Insecticide
Recommended restrictions on use	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 Harbøre
Denmark

Telephone: +45 9690 9690
Telefax: +45 9690 9691
E-mail address: SDS-Info@fmc.com .

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

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.
Acute toxicity, Category 4	H332: Harmful if inhaled.
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 + H332 Harmful if swallowed or if inhaled.
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.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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 as hazardous waste in accordance with local regulations.

Hazardous components which must be listed on the label:

octan-1-ol
Alcohols, C11-14-iso-, C13-rich, ethoxylated
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

Additional Labelling

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

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For special phrases (SP) and safety intervals, consult the label.

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)
Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8 265-158-7 649-468-00-3	Asp. Tox. 1; H304	>= 1 - < 10
octan-1-ol	111-87-5 203-917-6	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 720 mg/kg Acute dermal toxicity: 1.501 mg/kg	>= 2,5 - < 10
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity:	>= 1 - < 2,5

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Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-	114535-82-9	500 mg/kg Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 1 - < 2,5
Acrinathrin	101007-06-1	Acute Tox. 4; H332 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000 Acute toxicity estimate Acute inhalation toxicity (dust/mist): 1,6 mg/l	>= 0,25 - < 1
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2 606-143-00-0	Acute Tox. 2; H300 Acute Tox. 1; H330 Acute Tox. 3; H311 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 STOT RE 1; H372 >= 5 % STOT RE 2; H373 0,5 - < 5 % Acute toxicity esti-	>= 0,5 - < 1

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		mate	
		Acute oral toxicity: 5,0 mg/kg 300 mg/kg	
		Acute dermal toxicity: 944 mg/kg	

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.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Do not start with flushing with water but wipe off with dry cloth or using talcum powder, followed by washing with water and soap. Thereafter apply lidocaine, vitamin E cream, fatty skin care oil or cream.
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Make the exposed person rinse mouth and then drink 1 or 2 glasses of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
Induce vomiting only if:
1. a significant amount (more than a mouthful) has been ingested
2. patient is fully conscious

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- 3. medical aid is not readily available
- 4. time since ingestion is less than one hour.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Exposure causes symptoms of nervous system depression.
High doses cause death by respiratory failure.
Acrinathrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia).

Harmful if swallowed or if inhaled.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : If any sign of poisoning occurs, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to an insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present. Perform artificial respiration if needed.
As soon as a feeling of tingling is noted in any skin area (see section 11), it is recommended to immediately apply lidocaine or a vitamin E cream. For this purpose, lidocaine or vitamin E cream should be available at the workplace.
A specific antidote for exposure to this material is not known. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment of exposure is as for a general chemical and should be directed at the control of symptoms and the clinical condition.
If allowed to penetrate the skin, the active ingredient acrinathrin in this product may cause an irritation similar to sunburn. The substance will be drawn into a non-polar environment such as a fat based oil or cream. Vitamin E cream has been reported to be beneficial against other pyrethroid insecticides. Water is highly polar and will not decrease, but may prolong the irritation. Hot water may increase the pain. Since abamectin is believed to enhance GABA activity based on animal studies, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid).
For eye contamination, instillation of local anaesthetic can be considered.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

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5.2 Special hazards arising from the substance or mixture

- | | | |
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| Specific hazards during fire-fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | Fire may produce irritating, corrosive and/or toxic gases.
Carbon oxides
Hydrogen fluoride
Nitrogen oxides (NO _x)
Oxides of phosphorus
Fluorine compounds
Hydrogen cyanide |

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. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- | | | |
|----------------------|---|---|
| Personal precautions | : | Use personal protective equipment.
Ensure adequate ventilation.
If it can be safely done, stop the leak.
Keep people away from and upwind of spill/leak.
Remove all sources of ignition.
Immediately evacuate personnel to safe areas.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene. |
|----------------------|---|---|

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. |
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6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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|---|---|--|
| Advice on safe handling | : | Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
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 | : | Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. |

7.2 Conditions for safe storage, including any incompatibilities

- | | | |
|---|---|---|
| Requirements for storage areas and containers | : | Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
| Further information on storage conditions | : | The product is stable under normal conditions of warehouse storage. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available. |
| Recommended storage temperature | : | 5 - 30 °C |
| 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 |
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approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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 light paraffinic; Baseoil — unspecified	Workers	Inhalation		2,7 mg/m ³
	Workers	Dermal		
	Consumers	Oral		0,74 mg/kg

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
	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.)
octan-1-ol	Soil	10 mg/kg dry weight (d.w.)
	Secondary poisoning (predators)	66,6 mg/kg
	Marine water	0 mg/l
	Fresh water	200 µg/l
	Marine water	20 µg/l
	Sewage treatment plant	55,5 mg/l
Acrinathrin	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.)
Acrinathrin		0,32 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

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Material	: Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
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	: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Protective measures	: Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Wear suitable protective equipment. When using do not eat, drink or smoke. In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: milky
Odour	: aromatic
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Flash point	: > 118 °C
Decomposition temperature	: not determined
pH	: 7,44 Concentration: 1 % 6,22

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(undiluted)

Viscosity		
Viscosity, dynamic	:	Non-newtonian fluid: viscosity is dependent on shear rate. 144 mPa.s (20 °C) 95 mPa.s (40 °C)
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Vapour pressure	:	Not available for this mixture.
Relative density	:	0,9578 (20 °C)
Relative vapour density	:	not determined
Particle characteristics		
Assessment	:	Not applicable
Particle size	:	Not applicable
Particle Size Distribution	:	Not applicable
Shape	:	Not applicable

9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Flammability (liquids)	:	Not classified as a flammability hazard
Self-ignition	:	415 °C
Evaporation rate	:	not determined

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.
Decomposes on heating.

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10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers
The product is stable under acidic conditions, but not stable under alkaline conditions.

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): 310 - 366 mg/kg
Method: OECD Test Guideline 425
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, female): 1,31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials

LC50 (Rat, male): 2,12 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

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Acute inhalation toxicity : LC50 (Rat, male and female): > 5,53 mg/l
Exposure time: 4 h
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 (Rabbit, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

octan-1-ol:

Acute oral toxicity : LD50 (Rat, male): 1.800 mg/kg
LD50 (Rat, female): 720 mg/kg
Acute toxicity estimate: 720 mg/kg
Method: ATE value derived from LD50/LC50 value

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 (Rabbit, male and female): > 1.500 - < 2.000 mg/kg
Acute toxicity estimate: 1.501 mg/kg
Method: ATE value derived from LD50/LC50 value

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Acute oral toxicity : LD50 (Rat): 500 - 2.000 mg/kg
Remarks: Based on data from similar materials
Acute toxicity estimate: 500 mg/kg
Method: ATE value derived from LD50/LC50 value

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

Acrinathrin:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 1,6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

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Acute toxicity estimate: 1,6 mg/l
Test atmosphere: dust/mist
Method: ATE value derived from LD50/LC50 value

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

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

Acute oral toxicity : Acute toxicity estimate: 5,0 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rat): 340 mg/kg
Method: OECD Test Guideline 425
Symptoms: Fatality

LD50 (Rat): 300 - 2.000 mg/kg
Method: OECD Test Guideline 423
Symptoms: ataxia, apathy, Tremors, Fatality

Acute toxicity estimate: 300 mg/kg
Method: ATE value derived from LD50/LC50 value

Acute inhalation toxicity : 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, female): 1.414 mg/kg
Method: OECD Test Guideline 402
Symptoms: apathy, ataxia, Fatality

LD50 (Rat): 944 mg/kg
Method: OECD Test Guideline 402
Symptoms: apathy, ataxia, Breathing difficulties, Fatality

Acute toxicity estimate: 944 mg/kg
Method: ATE value derived from LD50/LC50 value

Skin corrosion/irritation

Not classified based on available information.

Product:

Assessment : No skin irritation
Method : OECD Test Guideline 404
Remarks : Based on data from similar materials
May cause mild irritation.
Based on available data, the classification criteria are not met.

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Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

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

octan-1-ol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Mild skin irritation

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

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

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

Acrinathrin:

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

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

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 404
Result	:	slight or no skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Method	:	OECD Test Guideline 405
Result	:	Irritation to eyes, reversing within 21 days
Remarks	:	Based on data from similar materials

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
Remarks	:	Based on data from similar materials

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octan-1-ol:

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

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species	: Rabbit
Result	: Irreversible effects on the eye

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

Acrinathrin:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation

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

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 405
Result	: Slight or no eye irritation

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 406
Result	: Does not cause skin sensitisation.
Remarks	: Based on data from similar materials

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

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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

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Exposure routes	: Skin contact
Result	: Does not cause skin sensitisation.

Acrinathrin:

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Does not cause skin sensitisation.

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

Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

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
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	: Test Type: reverse mutation assay Test system: TA98 Metabolic activation: Metabolic activation Result: negative Remarks: Based on data from similar materials
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Genotoxicity in vivo	: Species: Mouse (male and female) Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials
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Germ cell mutagenicity- Assessment	: Remarks: Mineral oil, highly refined, DMSO < 3% (IP346; Viscosity ≤ 20.5 mm ² /s at 40°C)
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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

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

Acrinathrin:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation
Result: positive

Genotoxicity in vivo : Test Type: chromosome aberration assay
Result: negative

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

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

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: mice
Result: negative
GLP: yes

Germ cell mutagenicity- Assessment : No genotoxic potential

Carcinogenicity

Not classified based on available information.

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Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Species	:	Mouse
Application Route	:	Dermal
Exposure time	:	78 weeks
Result	:	negative
Remarks	:	Based on data from similar materials
Carcinogenicity - Assessment	:	Based on available data, the classification criteria are not met. Remarks: Mineral oil, highly refined, DMSO < 3% (IP346; Viscosity ≤ 20.5 mm ² /s at 40°C)

Acrinathrin:

Species	:	Rat, female
Method	:	OECD Test Guideline 453
Result	:	positive
Species	:	Mouse
Method	:	OECD Test Guideline 451
Result	:	negative
Species	:	Rat
Method	:	OECD Test Guideline 453
Result	:	negative
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

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

Method	:	OECD Test Guideline 451
Remarks	:	Not classified
Method	:	OECD Test Guideline 453
Remarks	:	Not classified
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Effects on fertility	:	Test Type: reproductive and developmental toxicity study Species: Rat, male and female Application Route: Oral Early Embryonic Development: NOAEL: 1.000 mg/kg bw/day Method: OECD Test Guideline 421 Result: negative
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Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: Dermal
Teratogenicity: NOAEL: 2.000 mg/kg bw/day
Symptoms: Maternal effects
Result: negative
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Remarks: Mineral oil, highly refined, DMSO < 3% (IP346;
Viscosity ≤ 20.5 mm²/s at 40°C)

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

Effects on foetal development : Species: Rat
Application Route: Oral
Dose: 0, 130, 650, 975, 1300 mg/kg bw/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

Acrinathrin:

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

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:

Acrinathrin:

Remarks : No significant adverse effects were reported

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STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Product:

Assessment : May cause damage to organs through prolonged or repeated exposure.

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:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Species : Rat, male
LOAEL : 125 mg/kg
Application Route : Oral - gavage
Exposure time : 13 weeks
Remarks : Effects are of limited toxicological significance.
Based on data from similar materials

Species : Rat, male and female
NOAEC : > 0,98 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 4 weeks
Remarks : No significant adverse effects were reported
Based on data from similar materials

octan-1-ol:

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

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

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Acrinathrin:

Species	:	Rat
LOEL	:	9 mg/kg
Application Route	:	Oral
Exposure time	:	90 day
Target Organs	:	Skin, Nervous system

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

Species	:	Rat, female
NOAEL	:	3,0 mg/kg
LOAEL	:	6,7 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Dose	:	0, 3, 6.7, 8.9, 11.5 mg/kg bw/day
Method	:	OECD Test Guideline 407
GLP	:	yes
Symptoms	:	Tremors, Fatality

Species	:	Rat, female
NOAEL	:	3,8 mg/kg
LOAEL	:	9,3 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Dose	:	0, 1.8, 3.8, 9.3, 9.6 mg/kg bw/day
Method	:	OECD Test Guideline 408
GLP	:	yes

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

May be fatal if swallowed and enters airways.

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Acrinathrin:

The substance does not have properties associated with aspiration hazard potential.

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.

Neurological effects

Components:

Acrinathrin:

Remarks : May cause paraesthesia

Further information

Product:

Remarks : Low exposure can cause non-specific symptoms (e.g. nausea, vomiting, diarrhoea, itching). Higher doses can cause symptoms of nervous system depression, such as pupil dilation, excitation, incoordination, tremors, convulsions, lethargy, coma. High doses can cause death by respiratory failure. Inhalation of the substance/product is uncomfortable and can result in coughing and difficulty breathing. This effect should also be taken as a warning to avoid further exposure. On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

Components:

Acrinathrin:

Remarks : On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia),

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which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

Inhalation of the substance/product is uncomfortable and can result in coughing and difficulty breathing. This effect should also be taken as a warning to avoid further exposure.

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

Remarks : Exposure causes symptoms of nervous system depression, such as pupil dilation, vomiting, excitation, incoordination, tremors, lethargy, coma. High doses cause death by respiratory failure.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,307 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,00644 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): 60,8 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
Toxicity to soil dwelling organisms	: LC50: 1.875 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Remarks: Based on data from similar materials
Toxicity to terrestrial organisms	: LD50: > 2.000 mg/kg Species: Coturnix japonica (Japanese quail) LD50: 0,153 µg/bee Exposure time: 48 h End point: Acute oral toxicity Species: Apis mellifera (bees) LD50: 0,218 µg/bee Exposure time: 48 h End point: Acute contact toxicity

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Species: Apis mellifera (bees)

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Toxicity to fish	: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	: NOEL : > 1,93 mg/l Exposure time: 0,16 h
Toxicity to fish (Chronic toxicity)	: NOELR: > 1.000 mg/l Exposure time: 14 d Species: Oncorhynchus mykiss (rainbow trout) Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOELR: 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211

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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 20 mg/l Exposure time: 24 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC10 (Desmodesmus subspicatus (green algae)): 4,2 mg/l Exposure time: 48 h Test Type: static test EC50 (Desmodesmus subspicatus (green algae)): 6,5 mg/l Exposure time: 48 h Test Type: static test

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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

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 : > 1 - 10 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (algae): > 1 - 10 mg/l
plants Exposure time: 72 h

EC10 (algae): > 0,1 - < 1 mg/l

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

Acrinathrin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,0061 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 0,002 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,000022 mg/l

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aquatic invertebrates	Exposure time: 48 h
Toxicity to algae/aquatic plants	: IC50 (<i>Scenedesmus subspicatus</i>): > 100 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	: 10.000
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,0063 µg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea)
M-Factor (Chronic aquatic toxicity)	: 10.000
Toxicity to soil dwelling organisms	: LC50: > 186 mg/kg Exposure time: 14 d Species: <i>Eisenia fetida</i> (earthworms)
Toxicity to terrestrial organisms	: LD50: 0.08 µg/bee End point: Acute contact toxicity Species: <i>Apis mellifera</i> (bees)

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

Toxicity to fish	: LC50 (<i>Danio rerio</i> (zebra fish)): 0,027 - 0,044 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): 0,0008 - 0,0015 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes EC50 (<i>Daphnia magna</i> (Water flea)): 0,0002 - 0,00028 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes EC50 (<i>Daphnia pulex</i> (Water flea)): 0,000159 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes NOEC (<i>Daphnia pulex</i> (Water flea)): 0,000089 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202

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GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Scenedesmus capricornutum* (fresh water algae)): 56,68 - 85,41 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 10.000

Toxicity to fish (Chronic toxicity) : NOEC: 0,0044 mg/l
Exposure time: 28 d
Species: *Pimephales promelas* (fathead minnow)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00003 mg/l
End point: reproduction
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 202

M-Factor (Chronic aquatic toxicity) : 10.000

Toxicity to soil dwelling organisms : LC50: 14,24 - 18,37 mg/kg
Exposure time: 14 d
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 207

Method: OECD Test Guideline 216
Remarks: No significant adverse effect on nitrogen mineralization.

Method: OECD Test Guideline 217
Remarks: No significant adverse effect on carbon mineralization.

Toxicity to terrestrial organisms : LD50: 0,00071 - 0,00099 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: *Apis mellifera* (bees)
Method: OECD Test Guideline 214

LD50: > 5000 ppm
Species: *Coturnix japonica* (Japanese quail)
Remarks: Dietary

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

octan-1-ol:

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

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

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

Acrinathrin:

Biodegradability : Result: Not readily biodegradable.
Stability in water : Degradation half life: 1 d

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

Biodegradability : Result: Not readily biodegradable.
Remarks: It undergoes degradation in the environment and in waste water treatment plants.

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12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

Components:

octan-1-ol:

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

Acrinathrin:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 538
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 5,24 (25 °C)

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

Bioaccumulation : Species: Danio rerio (zebra fish)
Bioconcentration factor (BCF): 54
Remarks: Bioaccumulation is unlikely.

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

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

Components:

Acrinathrin:

Distribution among environmental compartments : Remarks: immobile

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

Distribution among environmental compartments : Remarks: Mobile in soils

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

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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.

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.

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.
Do not re-use empty containers.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

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

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IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Abamectin, Acrinathrin)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Abamectin, Acrinathrin)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Abamectin, Acrinathrin)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Abamectin, Acrinathrin)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(Abamectin, Acrinathrin)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
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

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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

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 75, 3

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspeci-

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fied (Number on list 28)
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)
Citric acid, monohydrate
formaldehyde (Number on list 72, 28)
1,4-dioxane (Number on list 28)
ethylene oxide (Number on list 30, 29, 28)
acetaldehyde (Number on list 28)
propylene oxide (Number on list 29, 28)

formaldehyde (Number on list 72, 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

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

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Other regulations:

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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 light paraffinic; Baseoil — unspecified

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

TCSI	: Not 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. (S)-A-CYANO-3-PHENOXYBENZYL (1R,3S)-2,2-DIMETHYL-3-[(Z)-2-{[2,2,2-TRIFLUORO-1-(TRIFLUOROMETHYL)ETHOXY]CARBONYL}VINYL]CYCLOPROPANECARBOXYLATE abamectin (combination of avermectin B1a and avermectin B1b) (ISO) mixture of polyorganosiloxanes and fillers Oxirane, methyl-, polymer with oxirane, monobutyl ether high molecular weight polymeric emulsifier
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

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

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SECTION 16: Other information

Full text of H-Statements

H300	: Fatal if swallowed.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H332	: Harmful if inhaled.
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
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
STOT RE	: Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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 Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-

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stance; 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; TECI - 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
Acute Tox. 4	H332
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
Calculation method

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