

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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 50000643

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 (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

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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|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 20.10.2022 | SDS Number: 50000643 | Date of last issue: - Date of first issue: 20.10.2022 |
|----------------|------------------------------|-------------------------|--|

| | |
|--|--|
| 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.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: 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 in accordance with local regulation.

Hazardous components which must be listed on the label:

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.

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

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



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| | | | |
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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 light paraffinic | 64742-55-8 265-158-7 649-468-00-3 | 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 % Acute toxicity estimate Acute oral toxicity: 5,0 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. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. |
| In case of skin contact | : If on clothes, remove clothes. If on skin, rinse well with water. Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. |
| 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 give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Do not induce vomiting without medical advice. |

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. Harmful if swallowed. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. |
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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, CO₂, water spray or regular foam.

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
Nitrogen oxides (NO_x)
Oxides of phosphorus
Thermal decomposition can lead to release of irritating gases and vapours.

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.

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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Regulation (EC) No 1907/2006



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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

- 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.
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

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 | Workers | Inhalation | | 2,7 mg/m ³ |

SAFETY DATA SHEET

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



ABAMECTIN 18 g/l EW

Version 1.0 Revision Date: 20.10.2022 SDS Number: 50000643 Date of last issue: -
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|--|-----------|--------|--------------|
| | Workers | Dermal | |
| | Consumers | Oral | 0,74 mg/kg |
| abamectin (combination of avermectin B1a and avermectin B1b) (ISO) | | | 0,0025 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.) |
| | Soil | 10 mg/kg dry weight (d.w.) |
| octan-1-ol | Oral | 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 |
| | Fresh water sediment | 2,1 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,210 mg/kg dry weight (d.w.) |
| abamectin (combination of avermectin B1a and avermectin B1b) (ISO) | Soil | 1,6 mg/kg dry weight (d.w.) |
| | 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
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.

SAFETY DATA SHEET

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



ABAMECTIN 18 g/l EW

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 20.10.2022 | SDS Number: 50000643 | Date of last issue: - Date of first issue: 20.10.2022 |
|----------------|------------------------------|-------------------------|--|

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| 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. 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

| | |
|--|--------------------------------------|
| Appearance | : liquid |
| Colour | : off-white |
| Odour | : slight, aromatic, hydrocarbon-like |
| Melting point/freezing point | : not determined |
| Boiling point/boiling range | : 104 °C Decomposition |
| Upper explosion limit / Upper flammability limit | : not determined |
| Lower explosion limit / Lower flammability limit | : not determined |
| Flash point | : > 104 °C Method: closed cup |
| Decomposition temperature | : ca. 60 °C |
| pH | : 6,5 (25 °C) |
| Viscosity | |
| Viscosity, dynamic | : ca. 15.000 mPa.s |
| Solubility(ies) | |
| Water solubility | : dispersible |
| Partition coefficient: n-octanol/water | : Not available for this mixture. |
| Vapour pressure | : 0,00001 hPa (25 °C) |
| Relative density | : not determined |
| Density | : 950 g/l (20 °C) |

SAFETY DATA SHEET

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



ABAMECTIN 18 g/l EW

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 20.10.2022 | SDS Number: 50000643 | Date of last issue: - Date of first issue: 20.10.2022 |
|----------------|------------------------------|-------------------------|--|

Relative vapour density : not determined

Particle characteristics

Particle size : Not applicable

Particle Size Distribution : Not applicable

Shape : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : Non-oxidizing

Self-ignition : > 400 °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.

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.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

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.

Product:

Acute oral toxicity : LD50 (Rat): 1.260 mg/kg

SAFETY DATA SHEET

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



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|----------------|------------------------------|-------------------------|--|

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
Remarks: Severe signs of toxicity at this concentration.

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

Distillates (petroleum), hydrotreated light paraffinic:

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
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

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):

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

| | |
|---------------------------|--|
| 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 |
| 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:

| | |
|------------|--|
| Assessment | : No skin irritation |
| Method | : OECD Test Guideline 404 |
| Remarks | : Minimal effects that do not meet the threshold for classification. |
| Remarks | : May cause skin irritation in susceptible persons. |

Components:

octan-1-ol:

| | |
|---------|---------------------------|
| Species | : Rabbit |
| Method | : OECD Test Guideline 404 |
| Result | : slight irritation |

Distillates (petroleum), hydrotreated light paraffinic:

| | |
|---------|--|
| 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 | : No skin irritation |

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

| | | |
|--------|---|-------------------------|
| Method | : | OECD Test Guideline 405 |
| Result | : | Eye irritation |

Components:

octan-1-ol:

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

Distillates (petroleum), hydrotreated light paraffinic:

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| 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 | : | 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 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 |

SAFETY DATA SHEET

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Regulation (EC) No 1907/2006



ABAMECTIN 18 g/l EW

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

Distillates (petroleum), hydrotreated light paraffinic:

| | |
|-----------------|--|
| 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 |

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

Distillates (petroleum), hydrotreated light paraffinic:

| | |
|-----------------------|---|
| 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 Test Type: reverse mutation assay Test system: TA98 Metabolic activation: Metabolic activation Result: negative Remarks: Based on data from similar materials |
| Genotoxicity in vivo | : Species: Mouse (male and female) Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 |

SAFETY DATA SHEET

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Result: negative
Remarks: Based on data from similar materials

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

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 light paraffinic:

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 mm²/s at 40°C)

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:

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

SAFETY DATA SHEET

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Regulation (EC) No 1907/2006



ABAMECTIN 18 g/l EW

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 20.10.2022 | SDS Number: 50000643 | Date of last issue: - Date of first issue: 20.10.2022 |
|----------------|------------------------------|-------------------------|--|

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

Distillates (petroleum), hydrotreated light paraffinic:

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
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)

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.

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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, 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

Distillates (petroleum), hydrotreated light paraffinic:

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

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

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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

Aspiration toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated light paraffinic:

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

Components:

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)): 0,205 mg/l |
|------------------|---|--|

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,020 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 20 mg/l
Exposure time: 72 h

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg
Exposure time: 14 d
Species: *Eisenia fetida* (earthworms)

Toxicity to terrestrial organisms : LD50: > 2.000 mg/kg
Species: *Colinus virginianus* (Bobwhite quail)

LC50: 0.17 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: *Apis mellifera* (bees)

LC50: 0.66 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: *Apis mellifera* (bees)

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 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

Toxicity to microorganisms : (Protozoa): 44 mg/l
Exposure time: 72 h
Test Type: Cell multiplication inhibition test

SAFETY DATA SHEET

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



ABAMECTIN 18 g/l EW

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 20.10.2022 | SDS Number: 50000643 | Date of last issue: - Date of first issue: 20.10.2022 |
|----------------|------------------------------|-------------------------|--|

Remarks: Based on data from similar materials

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

Distillates (petroleum), hydrotreated light paraffinic:

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

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

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

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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 Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,00023 mg/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 |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0,0044 mg/l Exposure time: 28 d Species: Pimephales promelas (fathead minnow) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,00003 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) |
| 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 | : | LC50: 0.00083 µg/bee Exposure time: 48 h End point: Acute contact toxicity Species: Apis mellifera (bees) LD50: > 2.000 mg/kg Species: Coturnix japonica (Japanese quail) |

Ecotoxicology Assessment

| | | |
|--------------------------|---|---|
| Acute aquatic toxicity | : | Very toxic to aquatic life. |
| 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. |
|------------------|---|---|

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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 light paraffinic:

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

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

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

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

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

12.4 Mobility in soil

Product:

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

Components:

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 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 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."

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|------|-------|------------------|
| ADN | : 9 | |
| ADR | : 9 | |
| RID | : 9 | |
| IMDG | : 9 | |
| IATA | : 9 | |

14.4 Packing group

ADN

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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

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

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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 |
| 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) |

SAFETY DATA SHEET

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



ABAMECTIN 18 g/l EW

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 20.10.2022 | SDS Number: 50000643 | Date of last issue: - Date of first issue: 20.10.2022 |
|----------------|------------------------------|-------------------------|--|

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 light paraffinic; Baseoil — 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 |

15.2 Chemical safety assessment

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

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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. |
| 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 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; 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 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; TECI -

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: - |
| 1.0 | 20.10.2022 | 50000643 | Date of first issue: 20.10.2022 |

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 |
| Calculation method |
| Based on product data or assessment |
| Based on product data or assessment |

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