

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



VERIMARK® 20 SC

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 18.12.2024 | 50000081 | Date of first issue: 18.12.2024 |

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

1.1 Product identifier

Product name VERIMARK® 20 SC

Other means of identification

Product code 50000081

Unique Formula Identifier (UFI) : 8Y4X-12CH-DN4A-TW3E

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

Use of the Substance/Mixture : Insecticide

Recommended restrictions on use : Use as recommended by the label.
For professional users only.

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:
Ireland: 353-19014670 (CHEMTREC)

Medical emergency:
Ireland (Republic): +352 1 809 2166

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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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 : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.
P103 Read label before use.

Prevention:

P270 Do not eat, drink or smoke when using this product.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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.

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|------------------------------|---|---|--------------------------|
| Cyantraniliprole | 736994-63-1 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | >= 10 - < 20 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 2; H330 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 >= 0.036 % Acute toxicity esti- mate Acute oral toxicity: 450 mg/kg Acute inhalation tox- icity (dust/mist): 0.21 mg/l | >= 0.0025 - < 0.025 |

For explanation of abbreviations see section 16.

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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 | : Remove to fresh air. Consult a physician after significant exposure. 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 | : If on clothes, remove clothes. If on skin, rinse well with water. Wash off with soap and plenty of water. Get medical attention immediately if irritation develops and persists. |
| In case of eye contact | : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Do not induce vomiting without medical advice. 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. |

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|---|
| Treatment | : Treat symptomatically. Immediate medical attention is required in case of ingestion. |
|-----------|---|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Dry chemical, CO ₂ , water spray or regular foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : Do not spread spilled material with high-pressure water streams. High volume water jet |

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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 : Fire may produce irritating, corrosive and/or toxic gases.
Nitrogen oxides (NO_x)
Chlorine compounds
Hydrogen cyanide
Carbon oxides
Bromine compounds

5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

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 : Evacuate personnel to safe areas.
Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
Use personal protective equipment.
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.

6.4 Reference to other sections

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

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.
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 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. 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. 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.
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------|---------|-------------------------------|--------------------|-------|
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| propane-1,2-diol | 57-55-6 | OELV - 8 hrs (TWA) (particles) | 10 mg/m ³ | IE OEL |
| | | OELV - 8 hrs (TWA) (total (vapour and particles)) | 150 ppm 470 mg/m ³ | IE OEL |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------------------|-----------|-----------------|----------------------------|------------------------|
| 1,2-benzisothiazol-3(2H)-one | Workers | Inhalation | Long-term systemic effects | 6.81 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 0.966 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 1.2 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 0.345 mg/kg |

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

| Substance name | Environmental Compartment | Value |
|------------------------------|---------------------------|---------------|
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 0.00403 mg/l |
| | Marine water | 0.000403 mg/l |
| | Sewage treatment plant | 1.03 mg/l |
| | Fresh water sediment | 0.0499 mg/l |
| | Marine sediment | 0.00499 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

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.

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.

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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 | : off-white |
| Odour | : odourless |
| Odour Threshold | : not determined |
| Melting point/freezing point | : not determined |
| Boiling point/boiling range | : Not available for this mixture. |
| Upper explosion limit / Upper flammability limit | : Not available for this mixture. |
| Lower explosion limit / Lower flammability limit | : Not available for this mixture. |
| Flash point | : > 98 °C |
| Decomposition temperature | : Not available for this mixture. |
| pH | : 6 - 8 |
| | Concentration: 10 g/l 1 % (as a dispersion) |
| Viscosity | |
| Viscosity, dynamic | : 474.3 mPa.s 50 rpm |
| Viscosity, kinematic | : 444 mm ² /s |
| Solubility(ies) | |
| Water solubility | : No data available |
| Partition coefficient: n-octanol/water | : Not available for this mixture. |
| Vapour pressure | : Not available for this mixture. |
| Relative density | : 1.072 (20 °C) |
| Relative vapour density | : not determined |
| Particle characteristics | |
| Particle size | : Not applicable |
| Particle Size Distribution | : Not applicable |

9.2 Other information

| | |
|------------------------|-----------------------------------|
| Explosives | : Not explosive |
| Oxidizing properties | : The product is not oxidizing. |
| Flammability (liquids) | : Not expected to be ignitable |
| Self-ignition | : > 800 °C |
| Evaporation rate | : Not available for this mixture. |
| Miscibility with water | : dispersible |

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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.
Protect from frost, heat and sunlight.
Heating of the product will produce harmful and irritant vapours.

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

Not classified based on available information.

Product:

| | |
|---------------------------|--|
| Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report |
| Acute inhalation toxicity | : LC50 (Rat): > 3.7 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 |
| Acute dermal toxicity | : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report |

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Components:

Cyantraniliprole:

- Acute oral toxicity : LD50 (Mouse, female): > 5,000 mg/kg
Method: OECD Test Guideline 425
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: no mortality
- LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 425
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: no mortality
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: no mortality

1,2-benzisothiazol-3(2H)-one:

- Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg
Method: OECD Test Guideline 401
- Acute toxicity estimate: 450 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Remarks: Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)
- Acute inhalation toxicity : Acute toxicity estimate: 0.21 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Remarks: Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

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Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

| | | |
|---------|---|------------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |
| GLP | : | yes |
| Remarks | : | (Data on the product itself) |

Information source: Internal study report

Components:

Cyantraniliprole:

| | | |
|------------|---|-------------------------|
| Species | : | Rabbit |
| Assessment | : | No skin irritation |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |
| GLP | : | yes |

1,2-benzisothiazol-3(2H)-one:

| | | |
|---------------|---|-------------------------|
| Species | : | Rabbit |
| Exposure time | : | 72 h |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |

Serious eye damage/eye irritation

Not classified based on available information.

Product:

| | | |
|---------|---|------------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |
| GLP | : | yes |
| Remarks | : | (Data on the product itself) |

Information source: Internal study report

Components:

Cyantraniliprole:

| | | |
|------------|---|----------------------------|
| Species | : | Rabbit |
| Assessment | : | Not classified as irritant |
| Method | : | OECD Test Guideline 405 |
| Result | : | slight irritation |
| GLP | : | yes |

1,2-benzisothiazol-3(2H)-one:

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| Species | : | Bovine cornea |
| Method | : | OECD Test Guideline 437 |
| Result | : | No eye irritation |
| Species | : | Rabbit |
| Method | : | EPA OPP 81-4 |
| Result | : | Irreversible effects on the eye |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

| | | |
|-----------|---|--|
| Test Type | : | Local lymph node test |
| Species | : | Mouse |
| Method | : | OECD Test Guideline 429 |
| Result | : | Animal test did not cause sensitization by skin contact. |
| GLP | : | yes |
| Remarks | : | (Data on the product itself) |

Information source: Internal study report

Components:

Cyantraniliprole:

| | | |
|-----------------|---|------------------------------------|
| Test Type | : | Local lymph node test |
| Exposure routes | : | Dermal |
| Species | : | Mouse |
| Method | : | OECD Test Guideline 429 |
| Result | : | Does not cause skin sensitisation. |
| GLP | : | yes |

| | | |
|-----------------|---|------------------------------------|
| Test Type | : | Maximisation Test |
| Exposure routes | : | Dermal |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | Does not cause skin sensitisation. |
| GLP | : | yes |

| | | |
|-----------------|---|------------------------------------|
| Test Type | : | Buehler Test |
| Exposure routes | : | Dermal |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | Does not cause skin sensitisation. |
| GLP | : | yes |

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|-----------------|------------------------------|
| Test Type | : Magnussen-Kligman test |
| Exposure routes | : Dermal |
| Species | : Guinea pig |
| Method | : OECD Test Guideline 406 |
| Result | : Causes skin sensitization. |
| GLP | : yes |

Remarks : see user defined free text

1,2-benzisothiazol-3(2H)-one:

| | |
|-----------|--|
| Test Type | : Maximisation Test |
| Species | : Guinea pig |
| Method | : OECD Test Guideline 406 |
| Result | : May cause sensitisation by skin contact. |

| | |
|---------|--|
| Species | : Guinea pig |
| Method | : FIFRA 81.06 |
| Result | : May cause sensitisation by skin contact. |

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Remarks: The product contains no ingredients known to be mutagenic.

Components:

Cyantraniliprole:

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: reverse mutation assay
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476

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Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

1,2-benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
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.

Carcinogenicity

Not classified based on available information.

Product:

Remarks : The product contains no ingredients known to be carcinogenic.

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Components:

Cyantraniliprole:

| | |
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| Species | : Rat, male and female |
| Application Route | : Ingestion |
| Exposure time | : 2 Years |
| NOAEL | : 200 - 2,000 ppm |
| Method | : OECD Test Guideline 453 |
| Result | : negative |

| | |
|-------------------|---------------------------|
| Species | : Mouse, male and female |
| Application Route | : Ingestion |
| Exposure time | : 18 month(s) |
| NOAEL | : 7,000 ppm |
| Method | : OECD Test Guideline 451 |
| Result | : negative |

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

Reproductive toxicity

Not classified based on available information.

Product:

| | |
|----------------------|---|
| Effects on fertility | : Remarks: The product contains no ingredients found to have adverse effects on reproduction. |
|----------------------|---|

Components:

Cyantraniliprole:

| | |
|-------------------------------|---|
| Effects on foetal development | : Test Type: Pre-natal Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 1,000 mg/kg bw/day Embryo-foetal toxicity: NOAEL: 1,000 mg/kg bw/day Method: OECD Test Guideline 414 Result: negative |
|-------------------------------|---|

| |
|---|
| Test Type: Pre-natal Species: Rabbit Application Route: Oral General Toxicity Maternal: NOAEL: 25 mg/kg bw/day Embryo-foetal toxicity: NOAEL: 100 mg/kg bw/day Symptoms: Maternal effects Method: OECD Test Guideline 414 Result: negative |
|---|

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

1,2-benzisothiazol-3(2H)-one:

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Effects on fertility : Species: Rat, male
Application Route: Ingestion
General Toxicity - Parent: NOAEL: 18.5 mg/kg body weight
General Toxicity F1: NOAEL: 48 mg/kg body weight
Fertility: NOAEL: 112 mg/kg bw/day
Symptoms: No effects on reproduction parameters
Method: OPPTS 870.3800
Result: negative

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

STOT - single exposure

Not classified based on available information.

Product:

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

Components:

Cyantraniliprole:

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

STOT - repeated exposure

Not classified based on available information.

Product:

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

Components:

Cyantraniliprole:

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

1,2-benzisothiazol-3(2H)-one:

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

Repeated dose toxicity

Components:

Cyantraniliprole:

Species : Rat
NOAEL : > 1,000 mg/kg
Application Route : Oral

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Exposure time : 28 Days
Method : OECD Test Guideline 407
Symptoms : increased liver weight
Remarks : Based on available data, the classification criteria are not met.

Species : Rat, male and female
NOAEL : 6.9 - 168 mg/kg bw/day
Application Route : Ingestion
Exposure time : 90 Days
Method : OPPTS 870.3100
Remarks : Effects are of limited toxicological significance.

Species : Mouse, male and female
NOAEL : 1091.8 mg/kg bw/day
Application Route : Ingestion
Exposure time : 90 Days
Method : OPPTS 870.3100
Remarks : Effects are of limited toxicological significance.

Species : Dog, male and female
NOAEL : 3.08 - 3.48 mg/kg bw/day
Application Route : Ingestion
Exposure time : 90 Days
Method : OPPTS 870.3150
Remarks : Effects are of limited toxicological significance.

Species : Rat, male and female
NOAEL : 8.3 - 106.6 mg/kg bw/day
Application Route : Ingestion
Exposure time : 2 yr
Method : OPPTS 870.4300
Remarks : Effects are of limited toxicological significance.

Species : Mouse, male and female
NOAEL : 768.8 - 903.8 mg/kg bw/day
Application Route : Ingestion
Exposure time : 18 Months
Method : OPPTS 870.4200
Remarks : Effects are of limited toxicological significance.

Species : Dog, male and female
NOAEL : 5.67 - 6 mg/kg bw/day
Application Route : Ingestion
Exposure time : 1 yr
Method : OPPTS 870.4100
Remarks : Effects are of limited toxicological significance.

Species : Rat, male and female
NOAEL : 1000 mg/kg
Application Route : Dermal
Exposure time : 28 Days
Method : OECD Test Guideline 410
GLP : yes

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Symptoms : Irritation
Remarks : Effects are of limited toxicological significance.

1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female
NOAEL : 15 mg/kg
Application Route : Ingestion
Exposure time : 28 d
Method : OECD Test Guideline 407
Symptoms : Irritation

Species : Rat, male and female
NOAEL : 69 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Symptoms : Irritation, Reduced body weight

Aspiration toxicity

Not classified based on available information.

Components:

Cyantraniliprole:

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

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.

Components:

Cyantraniliprole:

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:

Cyantraniliprole:

No neurotoxicity observed in animal studies

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Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

| | |
|--|--|
| Toxicity to fish | : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 99 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.0421 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report |
| Toxicity to algae/aquatic plants | : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 66.3 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 0.00656 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) |
| Toxicity to soil dwelling organisms | : LC50: > 1,000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report |
| Toxicity to terrestrial organisms | : LD50: 0.00218 mg/kg Exposure time: 96 h End point: Acute oral toxicity Species: Apis mellifera (bees) |

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Method: OECD Test Guideline 213
GLP:yes
Remarks: (Data on the product itself)
Information source: Internal study report

LD50: 0.00355 mg/kg
Exposure time: 96 h
End point: Acute contact toxicity
Species: Apis mellifera (bees)
Method: OECD Test Guideline 213
GLP:yes
Remarks: (Data on the product itself)
Information source: Internal study report

Components:

Cyantraniliprole:

| | |
|---|--|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): > 12.6 mg/l Exposure time: 96 h Method: US EPA Test Guideline OPP 72-1 GLP: yes LC50 (Ictalurus punctatus (channel catfish)): > 10 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.0204 mg/l Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 13 mg/l Exposure time: 72 h ErC50 (Lemna gibba (duckweed)): 0.278 mg/l Exposure time: 7 d EyC50 (Lemna gibba (duckweed)): 0.060 mg/l Exposure time: 7 d |
| M-Factor (Acute aquatic toxicity) | : 10 |
| Toxicity to fish (Chronic toxicity) | : NOEC: 2.9 mg/l Exposure time: 28 d Species: Cyprinodon variegatus (sheepshead minnow) NOEC: 0.11 mg/l Exposure time: 21 d Species: Oncorhynchus mykiss (rainbow trout) NOEC: 1.01 mg/l Exposure time: 90 d Species: Oncorhynchus mykiss (rainbow trout) Test Type: Early Life-Stage |

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Method: US EPA Test Guideline OPP 72-4
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.00656 mg/l
End point: Growth
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: Static-Renewal
Method: US EPA Test Guideline OPPTS 850.1300
GLP: yes

LOEC: 0.00969 mg/l
End point: Growth
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: Static-Renewal
Method: US EPA Test Guideline OPPTS 850.1300
GLP: yes

NOEC: 0.00447 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

NOEC: 0.72 mg/l
End point: reproduction
Exposure time: 35 d
Species: Americamysis bahia (mysid shrimp)
Test Type: flow-through test
Method: US EPA Test Guideline OPP 72-4
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : NOEC: 1,000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222
GLP: yes

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: > 0.0934 µg/bee
Exposure time: 72 h
End point: Acute contact toxicity

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Species: Apis mellifera (bees)
Method: OECD Test Guideline 214
GLP:yes

LD50: > 0.1055 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: Apis mellifera (bees)
Method: OECD Test Guideline 213
GLP:yes

LD50: > 2,250 mg/kg
End point: Acute oral toxicity
Species: Colinus virginianus
Method: US EPA Test Guideline OPPTS 850.2100
GLP:yes

NOEC: 1,000 ppm
End point: Reproduction Test
Species: Anas platyrhynchos (Mallard duck)
Method: OECD Test Guideline 206
GLP:yes

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16.7 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2.15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.070 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l

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Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): 12.8 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.
Remarks: Estimation based on data obtained on active ingredient.
Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

Components:

Cyantraniliprole:

Biodegradability : Remarks: Not readily biodegradable.

1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not bioaccumulate.
Estimation based on data obtained on active ingredient.

Components:

Cyantraniliprole:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): < 1
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.97 (22 °C)
pH: 4

log Pow: 2.07 (22 °C)
pH: 7

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log Pow: 1.74 (22 °C)
pH: 9

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)
Exposure time: 56 d
Bioconcentration factor (BCF): 6.62
Method: OECD Test Guideline 305
Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0.7 (20 °C)
pH: 7

log Pow: 0.99 (20 °C)
pH: 5

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: The product is not expected to be mobile in soils. Estimation based on data obtained on active ingredient.

Components:

Cyantraniliprole:

Distribution among environmental compartments : Koc: 241 ml/g, log Koc: 2.38
Kd: 3.73 ml/g
Remarks: Mobile in soils

1,2-benzisothiazol-3(2H)-one:

Distribution among environmental compartments : Koc: 9.33 ml/g, log Koc: 0.97
Method: OECD Test Guideline 121
Remarks: Highly 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

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Cyantraniliprole:

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 : No other ecological effects to be specially mentioned. See product label for additional application instructions relating to environmental precautions.

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. |
| 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.
(Cyantraniliprole)

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

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

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

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

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 3 |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Not applicable |

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Regulation (EC) on substances that deplete the ozone layer : Not applicable

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

Regulation (EU) 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

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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. 3-BROMO-1-(3-CHLORO-2-PYRIDYL)-4'-CYAN-2'-METHYL-6'-(METHYLCARBAMOYL)-1H-PYRAZOLE-5-CARBOXANILIDE ACTI-GEL 208 (ACTIVE MINERALS) |
| 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 |

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TECI : Not in compliance with the inventory

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

| | |
|------|---|
| H302 | : Harmful if swallowed. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage. |
| H330 | : Fatal if inhaled. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic 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 |
| Eye Dam. | : Serious eye damage |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| IE OEL | : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2 |
| IE OEL / OELV - 8 hrs (TWA) | : Occupational exposure limit value (8-hour reference period) |

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

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



VERIMARK® 20 SC

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|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 18.12.2024 | 50000081 | Date of first issue: 18.12.2024 |

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 - 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:

| | |
|-------------------|------|
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |

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