

SAFETY DATA SHEET

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



RATIO(R) SUPER SX(R)

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 12.04.2022 | 50000069 | Date of first issue: 12.04.2022 |

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

1.1 Product identifier

| | |
|--------------|----------------------|
| Product name | RATIO(R) SUPER SX(R) |
|--------------|----------------------|

Other means of identification

| | |
|--------------|----------|
| Product code | 50000069 |
|--------------|----------|

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

| | |
|------------------------------------|----------------------------------|
| Use of the Sub- stance/Mixture | Herbicide |
| Recommended restrictions on use | Use as recommended by the label. |

1.3 Details of the supplier of the safety data sheet

| | |
|-------------------------|--|
| <u>Supplier Address</u> | FMC Agricultural Solutions A/S Thyborønvej 78 DK-7673 Denmark Telephone: +45 9690 9690 Telefax: +45 9690 9691 E-mail address: SDS-Info@fmc.com (E-Mail General Infor- mation) |
|-------------------------|--|

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Finland: 358-942419014 (CHEMTREC)

Medical emergency:
Finland: 0800 147 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|---|---|
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through pro- longed or repeated exposure. |
|---|---|

| | |
|--|-----------------------------------|
| Short-term (acute) aquatic hazard, Cate- | H400: Very toxic to aquatic life. |
|--|-----------------------------------|

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gory 1

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 : H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

Prevention:

P260 Do not breathe spray, vapour.

Response:

P314 Get medical advice/ attention if you feel unwell.

P391 Collect spillage.

Disposal:

P501 Surplus, unusable plant protection product shall be exported to a collection point for hazardous waste and empty, rinsed sales packaging to an appropriate collection point

Additional Labelling

EUH208 Contains tribenuron-methyl (ISO). May produce an allergic reaction.

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

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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.

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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

Chemical nature : Mixture

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|---|---|--------------------------|
| thifensulfuron-methyl (ISO) | 79277-27-3 016-096-00-2 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 | >= 20 - < 25 |
| Tribenuron-methyl | 101200-48-0 401-190-1 607-177-00-9 | Skin Sens. 1; H317 STOT RE 2; H373 (Thyroid, Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 | >= 20 - < 25 |
| sodium carbonate | 497-19-8 207-838-8 011-005-00-2 | Eye Irrit. 2; H319 | >= 10 - < 20 |
| Phosphoric acid, trisodium salt, dodecahydrate | 10101-89-0 | Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) Acute toxicity esti- mate | >= 1 - < 10 |

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| | | | |
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| | | Acute inhalation toxicity (dust/mist): 0,830083 mg/l | |
|--|--|---|--|

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-------------------------|---|
| General advice | : Show this safety data sheet to the doctor in attendance. Call a physician immediately. Keep at rest. Remove victim from exposure and then have him lie down in the recovery position. Keep warm and in a quiet place. |
| If inhaled | : Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice. |
| 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 | : If eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes. Protect unharmed eye. Remove contact lenses. Keep eye wide open while rinsing. |
| If swallowed | : Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Keep respiratory tract clear. Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|--|
| Risks | : 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. |
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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

Hazardous combustion products : Carbon oxides
Hazardous combustion products
Sulphur oxides
Nitrogen oxides (NO_x)
Oxides of phosphorus

5.3 Advice for firefighters

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

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Use a water spray to cool fully closed containers.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Never return spills in original containers for re-use.
For disposal considerations see section 13.

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.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.

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 : Avoid formation of respirable particles.
Smoking, eating and drinking should be prohibited in the application area.
Do not breathe vapours/dust.
For personal protection see section 8.
Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wash hands before breaks and immediately after handling the product. When using do not eat or drink. When using do not smoke.

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 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:

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| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|-----------|-----------------|----------------------------|------------|
| sodium carbonate | Workers | Inhalation | Long-term local effects | 10 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 10 mg/m3 |
| Phosphoric acid, trisodium salt, dodecahydrate | Workers | Inhalation | Long-term systemic effects | 4,07 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 3,04 mg/m3 |

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

| Substance name | Environmental Compartment | Value |
|--|---------------------------|---------|
| Phosphoric acid, trisodium salt, dodecahydrate | Sewage treatment plant | 50 mg/l |

8.2 Exposure controls

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Equipment should conform to EN 143

Filter type : Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : solid, granular

Colour : light brown

Odour : slight

Odour Threshold : not determined

Melting point/range : Not available for this mixture.

Boiling point/boiling range : Not applicable

Flammability : Does not sustain combustion.

Upper explosion limit / Upper flammability limit : Not available for this mixture.

Lower explosion limit / Lower flammability limit : 0,01 %(V)

Decomposition temperature : Not available for this mixture.

pH : 9,4 (20 °C)

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Concentration: 10 g/l
Method: CIPAC MT 75

Viscosity
Viscosity, dynamic : Not applicable

Solubility(ies)
Water solubility : soluble

Partition coefficient: n-
octanol/water : Not applicable

Vapour pressure : Not available for this mixture.

Bulk density : 707 kg/m³packed

Relative vapour density : Not available for this mixture.

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The product is not oxidizing.

Self-ignition : 387 °C

Evaporation rate : Not applicable

Minimum ignition energy : > 1.000 mJ

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 : Dust may form explosive mixture in air.No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Dust formation
Heat, flames and sparks.

10.5 Incompatible materials

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

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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: Fixed Dose Method GLP: yes Remarks: The toxicological data has been taken from products of similar composition. Information source: Internal study report |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method |
| Acute dermal toxicity | : | LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: The toxicological data has been taken from products of similar composition. Information source: Internal study report |

Components:

thifensulfuron-methyl (ISO):

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat): > 5.000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 7,9 mg/l Exposure time: 4 h Test atmosphere: dust/mist |
| Acute dermal toxicity | : | LD50 (Rat): > 2.000 mg/kg |

Tribenuron-methyl:

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50: > 5.000 mg/kg Method: OECD Test Guideline 425 |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,14 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 |
| Acute dermal toxicity | : | LD50 (Rat): > 5.000 mg/kg |

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Method: OECD Test Guideline 402

sodium carbonate:

Acute oral toxicity : LD50 (Rat, male and female): 2.800 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 2,3 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Target Organs: Skin
Symptoms: Erythema

Phosphoric acid, trisodium salt, dodecahydrate:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 420
Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 0,83 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials
no mortality

Acute toxicity estimate: 0,830083 mg/l
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials
no mortality

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Remarks : The toxicological data has been taken from products of similar composition.
Information source: Internal study report

Components:

Tribenuron-methyl:

Species : Rabbit

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Assessment : Not classified as irritant
Method : OECD Test Guideline 404
Remarks : May cause mild irritation.
Based on available data, the classification criteria are not met.

sodium carbonate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation

Phosphoric acid, trisodium salt, dodecahydrate:

Species : Rabbit
Result : Skin irritation

Species : Rabbit
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 : The toxicological data has been taken from products of similar composition.
Information source: Internal study report

Components:

Tribenuron-methyl:

Species : Rabbit
Assessment : No eye irritation
Method : OECD Test Guideline 405
Remarks : May cause mild irritation.
Based on available data, the classification criteria are not met.

sodium carbonate:

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

Phosphoric acid, trisodium salt, dodecahydrate:

Species : Rabbit
Method : EPA OTS 798.4500
Result : Irritation to eyes, reversing within 21 days

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

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:

thifensulfuron-methyl (ISO):

| | | |
|---------|---|------------------------------------|
| Species | : | Guinea pig |
| Result | : | Does not cause skin sensitisation. |

Tribenuron-methyl:

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

Phosphoric acid, trisodium salt, dodecahydrate:

| | | |
|-----------|---|--------------------------------------|
| Test Type | : | Local lymph node assay (LLNA) |
| Species | : | Mouse |
| Method | : | OECD Test Guideline 429 |
| Result | : | Does not cause skin sensitisation. |
| Remarks | : | Based on data from similar materials |

Germ cell mutagenicity

Not classified based on available information.

Components:

thifensulfuron-methyl (ISO):

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

Tribenuron-methyl:

| | | |
|------------------------------------|---|---|
| Germ cell mutagenicity- Assessment | : | Did not show mutagenic effects in animal experiments. |
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sodium carbonate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
Remarks: Based on data from similar materials

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

Phosphoric acid, trisodium salt, dodecahydrate:

Genotoxicity in vitro : Test Type: gene mutation test
Method: OECD Test Guideline 490
Result: negative
Remarks: Based on data from similar materials

Test Type: Micronucleus test
Method: OECD Test Guideline 487
Result: negative

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Components:

thifensulfuron-methyl (ISO):

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

Tribenuron-methyl:

Remarks : No significant adverse effects were reported

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Not classified based on available information.

Components:

Tribenuron-methyl:

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on foetal development., Did not show teratogenic effects in animal experiments.

sodium carbonate:

Effects on foetal development : Species: Rat

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ment

Application Route: Oral
Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram
Duration of Single Treatment: 6 - 15 d
General Toxicity Maternal: NOAEL: > 245 mg/kg body weight
Teratogenicity: NOAEL: > 245 mg/kg body weight
Result: negative

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

Phosphoric acid, trisodium salt, dodecahydrate:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 1000 mg/kgbw
General Toxicity - Parent: NOAEL: 1.000 mg/kg bw/day
General Toxicity F1: NOAEL: 1.000 mg/kg bw/day
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 4.1, 19, 88.3, 410 mg/kgbw/day
Duration of Single Treatment: 20 d
General Toxicity Maternal: NOAEL: > 410 mg/kg bw/day
Embryo-foetal toxicity: NOAEL: > 410 mg/kg bw/day
Result: negative
Remarks: Based on data from similar materials

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

STOT - single exposure

Not classified based on available information.

Components:

Tribenuron-methyl:

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

Phosphoric acid, trisodium salt, dodecahydrate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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Components:

Tribenuron-methyl:

| | | |
|---------------|---|--|
| Target Organs | : | Thyroid, Nervous system |
| Assessment | : | May cause damage to organs through prolonged or repeated exposure. |

sodium carbonate:

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

Repeated dose toxicity

Components:

Tribenuron-methyl:

| | | |
|---------------|---|--|
| Species | : | Rabbit |
| LOAEL | : | 80 mg/kg |
| Target Organs | : | Thyroid, Nervous system |
| Assessment | : | The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. |
| Remarks | : | Increased mortality or reduced survival |

sodium carbonate:

| | | |
|-------------------|---|-----------------------------|
| Species | : | , male and female |
| NOAEL | : | > 0,01 mg/kg |
| Application Route | : | inhalation (dust/mist/fume) |
| Test atmosphere | : | dust/mist |

Phosphoric acid, trisodium salt, dodecahydrate:

| | | |
|-------------------|---|--------------------------------------|
| Species | : | Dog, female |
| NOAEL | : | 492.77 mg/kg bw/day |
| LOAEL | : | 1433.56 mg/kg bw/day |
| Application Route | : | Oral - feed |
| Exposure time | : | 90 d |
| Dose | : | 129.31,492.77,1433.56mg/kgbw/d |
| Target Organs | : | Kidney |
| Remarks | : | Based on data from similar materials |

| | | |
|-------------------|---|--------------------------------------|
| Species | : | Dog, male |
| NOAEL | : | 322.88 mg/kg bw/day |
| LOAEL | : | 1107.12 mg/kg bw/day |
| Application Route | : | Oral - feed |
| Exposure time | : | 90 d |
| Dose | : | 94.23,322.88,1107.12mg/kgbw/da |
| Target Organs | : | Kidney |
| Remarks | : | Based on data from similar materials |

Aspiration toxicity

Not classified based on available information.

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Components:

Tribenuron-methyl:

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.

SECTION 12: Ecological information

12.1 Toxicity

Product:

| | |
|---|---|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): > 130 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes Remarks: The toxicological data has been taken from products of similar composition. Information source: Internal study report |
| Toxicity to daphnia and other aquatic invertebrates | : (Daphnia magna (Water flea)): > 130 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: The toxicological data has been taken from products of similar composition. Information source: Internal study report |
| Toxicity to algae/aquatic plants | : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0,16 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: (Data on the product itself) Information source: Internal study report ErC50 (Lemna gibba (duckweed)): 0,0036 mg/l End point: Frond Exposure time: 168 h |

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Method: OECD Test Guideline 221
GLP: yes
Remarks: (Data on the product itself)
Information source: Internal study report

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: Information given is based on data obtained from similar product.
Information source: Internal study report

Toxicity to terrestrial organisms : LD50: > 112.2 µg/b
Exposure time: 48 h
Species: Apis mellifera (bees)
Method: OECD Test Guideline 213
GLP:yes
Remarks: Oral
Information given is based on data obtained from similar product.
Information source: Internal study report

LD50: > 100 µg/b
Exposure time: 48 h
Species: Apis mellifera (bees)
Method: OECD Test Guideline 214
GLP:yes
Remarks: Contact
Information given is based on data obtained from similar product.
Information source: Internal study report

Components:

thifensulfuron-methyl (ISO):

Toxicity to fish : LC50 (Salmo gairdneri): 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 470 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (green algae): 0,0159 mg/l
Exposure time: 72 h

EC50 (Lemna minor (duckweed)): 1,3 µg/l

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 250 mg/l
Exposure time: 28 d

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Species: *Salmo gairdneri*

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : LC50: > 2.000 mg/kg
Species: *Eisenia fetida* (earthworms)

Toxicity to terrestrial organisms : LD50: > 5.620 ppm
Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 2.510 mg/kg
Species: *Anas platyrhynchos* (Mallard duck)

LD50: > 7,1 µg/bee
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.

Tribenuron-methyl:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 738 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): > 320 mg/l
Exposure time: 48 h

EC50 (*Daphnia magna* (Water flea)): > 894 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): 0,068 mg/l
Exposure time: 72 h

ErC50 (*Lemna gibba* (duckweed)): 0,0047 mg/l
Exposure time: 7 d

NOEC (*Lemna gibba* (duckweed)): 0,001 mg/l
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 114 mg/l
Exposure time: 21 d
Species: *Cyprinodon variegatus* (sheepshead minnow)

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Method: OECD Test Guideline 211

NOEC: 560 mg/l
Exposure time: 21 d
Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 41 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : NOEC: 3,2 mg/kg
Exposure time: 56 d
Species: *Eisenia fetida* (earthworms)

Toxicity to terrestrial organisms : LD50: > 2.250 mg/kg
Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 5.620 ppm
Species: *Colinus virginianus* (Bobwhite quail)
Remarks: Dietary

LD50: > 5.620 ppm
Species: *Anas platyrhynchos* (Mallard duck)
Remarks: Dietary

LD50: > 98.4 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: *Apis mellifera* (bees)

LD50: > 9.1 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.

sodium carbonate:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Ceriodaphnia* (water flea)): 200 mg/l
Exposure time: 48 h
Test Type: semi-static test

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Phosphoric acid, trisodium salt, dodecahydrate:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: EU Method C3
Remarks: Based on data from similar materials
- NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: EU Method C3
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 (activated sludge): 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials
- NOEC (activated sludge): 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials
- Toxicity to soil dwelling organisms : LC50: > 3.500 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
Remarks: Based on data from similar materials

12.2 Persistence and degradability

Product:

- Biodegradability : Result: Not readily biodegradable.
Remarks: Estimation based on data obtained on active ingredient.

Components:

Tribenuron-methyl:

- Biodegradability : Result: Not readily biodegradable.
Remarks: The product/substance is not persistent in the environment.
Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil.

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Metabolites are considered as persistent.
According to the results of tests of biodegradability this product is not readily biodegradable.

sodium carbonate:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

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

Components:

thifensulfuron-methyl (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Tribenuron-methyl:

Bioaccumulation : Bioconcentration factor (BCF): < 1
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,38

sodium carbonate:

Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: Under actual use conditions, there is no reasonable expectation of any movement of the product from the top soil layer.

Components:

thifensulfuron-methyl (ISO):

Distribution among environmental compartments : Remarks: Mobile in soils

Tribenuron-methyl:

Distribution among environmental compartments : Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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

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.
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 3077

ADR : UN 3077

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RID : UN 3077

IMDG : UN 3077

IATA : UN 3077

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Tribenuron-methyl, Thifensulfuron-methyl)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Tribenuron-methyl, Thifensulfuron-methyl)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Tribenuron-methyl, Thifensulfuron-methyl)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Tribenuron-methyl, Thifensulfuron-methyl)

IATA : Environmentally hazardous substance, solid, n.o.s.
(Tribenuron-methyl, Thifensulfuron-methyl)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADN
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

ADR
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IMDG

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

IATA (Cargo)

Packing instruction (cargo aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956
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) : Not applicable

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

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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

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

| | |
|-------|---|
| TCSI | : Not in compliance with the inventory |
| TSCA | : Product contains substance(s) not listed on TSCA inventory. |
| AIIC | : Not in compliance with the inventory |
| DSL | : This product contains the following components that are not on the Canadian DSL nor NDSL. |
| ENCS | : Not in compliance with the inventory |
| ISHL | : Not in compliance with the inventory |
| KECI | : Not in compliance with the inventory |
| PICCS | : Not in compliance with the inventory |
| IECSC | : Not in compliance with the inventory |
| NZIoC | : Not in compliance with the inventory |
| TECI | : Not in compliance with the inventory |

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15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

| | |
|------|--|
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H319 | : Causes serious eye irritation. |
| H331 | : Toxic if inhaled. |
| H335 | : May cause respiratory irritation. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| 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 Irrit. | : Eye irritation |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| STOT SE | : Specific target organ toxicity - single exposure |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European

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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:

| | |
|-------------------|------|
| STOT RE 2 | H373 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

Classification procedure:

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

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