

SAFETY DATA SHEET

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



TRIPALI® WG

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 13.09.2023 |
| 1.1 | 19.01.2024 | 50000090 | Date of first issue: 13.09.2023 |

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

1.1 Product identifier

Product name TRIPALI® WG

Other means of identification

Product code 50000090

Unique Formula Identifier (UFI) : AR5X-K2K3-4N4S-RYC0

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

Use of the Substance/Mixture : Herbicide

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 Agro Bulgaria EOOD
ISKARSKO SHOSE BLVD. NO.7
TRADE CENTER EUROPE
BUILDING 7, OFFICE 8, FLOOR 4
1528 Sofia
Bulgaria

Telephone: +359 (0) 2 818 5656
E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Bulgaria: +(359)-32570104 (CHEMTREC)

Medical emergency:
Clinic of Toxicology at the Hospital " N.I. Pirogov"
Emergency telephone/fax: +359 2 9154 233

National number: 112

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|--|---|
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| 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 :
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Disposal:

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

Hazardous components which must be listed on the label:

tribenuron-methyl (ISO)

Additional Labelling

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- EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
- 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--------------------------|---|--|--------------------------|
| florasulam (ISO) | 145701-23-1 613-230-00-7 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 | >= 2,5 - < 10 |
| metsulfuron-methyl (ISO) | 74223-64-6 613-139-00-2 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 1.000 | >= 2,5 - < 10 |

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| tribenuron-methyl (ISO) | 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 | >= 2,5 - < 10 |
| Lignosulfonic acid, sodium salt, sulfomethylated | 68512-34-5 | Eye Irrit. 2; H319 | >= 1 - < 10 |
| sodium carbonate | 497-19-8 207-838-8 011-005-00-2 | Eye Irrit. 2; H319 | >= 1 - < 10 |
| Phosphoric acid, trisodium salt, dodecahydrate | 10101-89-0 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) Acute toxicity estimate Acute inhalation toxicity (dust/mist): 0,830083 mg/l | >= 1 - < 10 |
| sodium dodecyl sulphate | 151-21-3 205-788-1 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 977 mg/kg | >= 1 - < 2,5 |
| Substances with a workplace exposure limit : | | | |
| kaolin | 1332-58-7 310-194-1 | | >= 10 - < 20 |

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. If unconscious, place in recovery position and seek medical advice. If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact | : 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 | : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Do not induce vomiting without medical advice. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|--|
| Risks | : May cause an allergic skin reaction. Causes serious eye irritation. |
|-------|--|

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. |
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Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.

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 : Thermal decomposition can lead to release of irritating gases and vapours.
Nitrogen oxides (NOx)
Sulphur oxides
Carbon oxides
Oxides of phosphorus
Fluorinated compounds

5.3 Advice for firefighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
If it can be safely done, stop the leak.
Keep people away from and upwind of spill/leak.
Remove all sources of ignition.
Immediately evacuate personnel to safe areas.
Ensure adequate ventilation.
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.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 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.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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.

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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 |
|--|------------|--------------------------------|-----------------------|------------|
| kaolin | 1332-58-7 | TWA (Respirable) | 3 mg/m ³ | BG OEL |
| | | TWA (Inhalable) | 6 mg/m ³ | BG OEL |
| | | TWA (Respirable dust) | 0,1 mg/m ³ | 2004/37/EC |
| Further information: Carcinogens or mutagens | | | | |
| titanium dioxide | 13463-67-7 | TWA (respirable dust fraction) | 10 mg/m ³ | BG OEL |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|-----------|-----------------|----------------------------|------------------------|
| florasulam (ISO) | | | Systemic effects | 0,05 mg/kg bw/day |
| sodium carbonate | Workers | Inhalation | Long-term local effects | 10 mg/m ³ |
| | Consumers | Inhalation | Acute local effects | 10 mg/m ³ |
| Phosphoric acid, trisodium salt, dodecahydrate | Workers | Inhalation | Long-term systemic effects | 4,07 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic effects | 3,04 mg/m ³ |
| sodium dodecyl sulphate | Workers | Inhalation | Long-term systemic effects | 285 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 4060 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 85 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 2440 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 24 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|--|---------------------------|---------------|
| florasulam (ISO) | Fresh water | 0,000062 mg/l |
| Phosphoric acid, trisodium salt, dodecahydrate | Sewage treatment plant | 50 mg/l |

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| sodium dodecyl sulphate | Fresh water | 0,176 mg/l |
| | Marine water | 0,018 mg/l |
| | Sewage treatment plant | 1,35 mg/l |
| | Fresh water sediment | 6,97 mg/kg |
| | Marine sediment | 0,697 mg/kg dry weight (d.w.) |
| | Soil | 1,29 mg/kg dry weight (d.w.) |

8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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
In case of dust exposure wear suitable personal respiratory protection and protective suit.
- Filter type : Particulates type (P)
- Protective measures : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Wear suitable protective equipment.
When using do not eat, drink or smoke.
- In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

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| | | |
|--|---|---|
| Form | : | granules |
| Colour | : | light brown |
| Odour | : | mild |
| Odour Threshold | : | not determined |
| Melting point/freezing point | : | not determined |
| Boiling point/boiling range | : | Decomposition |
| Flammability | : | Not highly flammable |
| Upper explosion limit / Upper flammability limit | : | not determined |
| Lower explosion limit / Lower flammability limit | : | not determined |
| Flash point | : | not determined |
| Decomposition temperature | : | Not available for this mixture. |
| pH | : | 6,5 - 7 Concentration: 1 % (1% solution in water) |
| Viscosity | | |
| Viscosity, dynamic | : | Not applicable |
| Viscosity, kinematic | : | not determined |
| Solubility(ies) | | |
| Water solubility | : | Miscible |
| Partition coefficient: n-octanol/water | : | Not available for this mixture. |

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Vapour pressure : Not available for this mixture.

Relative density : Not available for this mixture.

Density : not determined

Relative vapour density : not determined

Particle characteristics
Particle size : No data available

Particle Size Distribution : No data available

Shape : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The product is not oxidizing.

Self-ignition : not determined

Evaporation rate : Not applicable

Minimum ignition energy : 10 - 20 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 : No decomposition if stored and applied as directed.

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Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Protect from frost, heat and sunlight.
Heating of the mixture may evolve 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: Acute toxicity estimate
Remarks: (Data on the product itself)
Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Acute toxicity estimate
Remarks: (Data on the product itself)
Information source: Internal study report

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: Acute toxicity estimate
Remarks: (Data on the product itself)
Information source: Internal study report

Components:

florasulam (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,09 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

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

metsulfuron-methyl (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: US EPA Test Guideline OPP 81-1
Assessment: The substance or mixture has no acute oral toxicity

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): > 5,11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: Breathing difficulties
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
Symptoms: Irritation
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: no mortality

tribenuron-methyl (ISO):

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
Method: OECD Test Guideline 402

Lignosulfonic acid, sodium salt, sulfomethylated:

Acute oral toxicity : LD50 (Rat, female): > 10 g/kg

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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
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials
no mortality

Acute toxicity estimate: 0,830083 mg/l
Test atmosphere: dust/mist
Method: Calculation method
Assessment: The substance or mixture has no acute inhalation toxicity

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

sodium dodecyl sulphate:

Acute oral toxicity : LD50 (Rat, male and female): 1.200 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat, male): 1.427 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat, female): 977 mg/kg
Method: OECD Test Guideline 401

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

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kaolin:

| | | |
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| Acute oral toxicity | : | LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 LD50: > 2.000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : | LD50: 5,07 mg/l Method: OECD Test Guideline 436 |
| Acute dermal toxicity | : | LD50 (Rat): > 5.000 mg/kg LD50: > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity |

Skin corrosion/irritation

Not classified based on available information.

Product:

| | | |
|---------|---|--|
| Species | : | Rat |
| Result | : | No skin irritation |
| Remarks | : | The toxicological data has been taken from products of similar composition. Information source: Internal study report |

Components:

florasulam (ISO):

| | | |
|--------|---|-------------------------|
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |

metsulfuron-methyl (ISO):

| | | |
|------------|---|--------------------------------|
| Species | : | Rabbit |
| Assessment | : | Not classified as irritant |
| Method | : | US EPA Test Guideline OPP 81-5 |
| Result | : | No skin irritation |

tribenuron-methyl (ISO):

| | | |
|------------|---|---|
| Species | : | Rabbit |
| 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. |

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Lignosulfonic acid, sodium salt, sulfomethylated:

Result : No skin irritation

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

sodium dodecyl sulphate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

kaolin:

Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species : Rabbit
Result : Moderate eye irritation
Remarks : The toxicological data has been taken from products of similar composition.
Information source: Data provided by an external source.

Components:

florasulam (ISO):

Method : OECD Test Guideline 405
Result : No eye irritation

metsulfuron-methyl (ISO):

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

tribenuron-methyl (ISO):

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

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Remarks : May cause mild irritation.
Based on available data, the classification criteria are not met.

Lignosulfonic acid, sodium salt, sulfomethylated:

Result : Eye irritation

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

sodium dodecyl sulphate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

kaolin:

Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Species : Guinea pig
Assessment : May cause sensitisation by skin contact.
Result : Causes sensitisation.
Remarks : The toxicological data has been taken from products of similar composition.
Information source: Internal study report

Components:

florasulam (ISO):

Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

metsulfuron-methyl (ISO):

Test Type : Maximisation Test

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Exposure routes : Skin contact
Species : Guinea pig
Method : US EPA Test Guideline OPPTS 870.2600
Result : Not a skin sensitizer.

tribenuron-methyl (ISO):

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Species : Guinea pig
Result : Not a skin sensitizer.

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

sodium dodecyl sulphate:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

kaolin:

Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

Components:

florasulam (ISO):

Genotoxicity in vitro : Test system: Chinese hamster ovary cells
Method: Regulation (EC) No. 440/2008, Annex, B.17
Result: negative

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metsulfuron-methyl (ISO):

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Metabolic activation: Metabolic activation Result: positive GLP: yes |
| Genotoxicity in vivo | : | Test Type: Micronucleus test Species: Mouse Result: negative |

tribenuron-methyl (ISO):

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

Lignosulfonic acid, sodium salt, sulfomethylated:

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative |
| Genotoxicity in vivo | : | Remarks: No data available |

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 |

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sodium dodecyl sulphate:

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay Test system: Escherichia coli Method: OECD Test Guideline 471 Result: negative |
| | | Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative |
| Genotoxicity in vivo | : | Test Type: chromosome aberration assay Species: Mouse (male and female) Application Route: Oral Result: negative |

kaolin:

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: Ames test Method: OECD Test Guideline 471 Result: negative |
| Genotoxicity in vivo | : | Remarks: No data available |

Carcinogenicity

Not classified based on available information.

Product:

| | | |
|------------------------------|---|---|
| Carcinogenicity - Assessment | : | Contains no ingredient listed as a carcinogen |
|------------------------------|---|---|

Components:

florasulam (ISO):

| | | |
|------------------------------|---|---|
| Carcinogenicity - Assessment | : | Animal testing did not show any carcinogenic effects. |
|------------------------------|---|---|

metsulfuron-methyl (ISO):

| | | |
|---------------|---|----------------------|
| Species | : | Rat, male and female |
| Exposure time | : | 104 weeks |
| NOAEL | : | 500 ppm |
| Result | : | negative |

| | | |
|---------------|---|------------------------|
| Species | : | Mouse, male and female |
| Exposure time | : | 18 month(s) |
| NOAEL | : | 5.000 ppm |
| Result | : | negative |

tribenuron-methyl (ISO):

| | | |
|---------|---|--|
| Remarks | : | No significant adverse effects were reported |
|---------|---|--|

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

sodium dodecyl sulphate:

| | |
|-------------------|------------|
| Species | : Rat |
| Application Route | : Oral |
| Exposure time | : 2 Years |
| NOAEL | : 1.125 |
| LOAEL | : > 1.125 |
| Result | : negative |

Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

Components:

florasulam (ISO):

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

metsulfuron-methyl (ISO):

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit, female
Application Route: Ingestion
Symptoms: Maternal effects
Result: negative

Test Type: Embryo-foetal development
Species: Rat, female
Application Route: Ingestion
Symptoms: Maternal effects
Result: negative

tribenuron-methyl (ISO):

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.

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Lignosulfonic acid, sodium salt, sulfomethylated:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

sodium carbonate:

Effects on foetal development : Species: Rat
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/kg bw/day
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/kg bw/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

sodium dodecyl sulphate:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 300 mg/kg body weight
General Toxicity F1: NOAEL: 300 mg/kg body weight
Result: negative
Remarks: Based on data from similar materials

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Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Oral
Duration of Single Treatment: 6 - 15 d
General Toxicity Maternal: NOEL: 250 mg/kg body weight
Developmental Toxicity: NOEL: 250 mg/kg body weight
Result: negative
Remarks: Based on data from similar materials

kaolin:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

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:

florasulam (ISO):

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

tribenuron-methyl (ISO):

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

Phosphoric acid, trisodium salt, dodecahydrate:

Assessment : May cause respiratory irritation.

kaolin:

Remarks : No significant adverse effects were reported

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.

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Components:

florasulam (ISO):

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

tribenuron-methyl (ISO):

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

sodium carbonate:

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

sodium dodecyl sulphate:

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

kaolin:

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

Repeated dose toxicity

Components:

florasulam (ISO):

Species : Rat
LOAEL : 500 mg/kg
Exposure time : 90 day
Symptoms : kidney effects

metsulfuron-methyl (ISO):

Species : Rat, male and female
NOEL : 1000 ppm
Application Route : Oral - feed
Exposure time : 90 days
Symptoms : Reduced body weight

tribenuron-methyl (ISO):

Species : Rabbit
LOAEL : 80 mg/kg

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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 : Rat, 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, 1433.56 mg/kg bw/day
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, 1107.12 mg/kg bw/day
Target Organs : Kidney
Remarks : Based on data from similar materials

sodium dodecyl sulphate:

Species : Rat
NOAEL : 488 mg/kg
LOAEL : 1.016 mg/kg
Application Route : Oral - feed
Exposure time : 13 weeks

kaolin:

Remarks : No data available

Aspiration toxicity

Not classified based on available information.

Product:

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

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Components:

florasulam (ISO):

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

tribenuron-methyl (ISO):

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.

Neurological effects

Components:

metsulfuron-methyl (ISO):

No neurotoxicity observed in animal studies

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0,261 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Information source: Internal study report (Data on the product itself)

ErC50 (Lemna gibba (duckweed)): 0,00317 mg/l
Exposure time: 7 d
Method: OECD Test Guideline 221
Remarks: Information source: Internal study report (Data on the product itself)

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Components:

florasulam (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 292 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,00894 mg/l
Exposure time: 72 h

EC50 (Lemna gibba (gibbous duckweed)): 0,00118 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 119 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 38,9 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : LC50: > 1.320 mg/kg
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 5.000 mg/kg
End point: Acute contact toxicity
Species: Anas platyrhynchos (Mallard duck)

LD50: >100
End point: Acute oral toxicity
Species: Apis mellifera (bees)

LD50: >100
End point: Acute contact toxicity
Species: Apis mellifera (bees)

metsulfuron-methyl (ISO):

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 120 mg/l
Exposure time: 48 h
Test Type: static test

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Method: OECD Test Guideline 202

EC50 (*Daphnia magna* (Water flea)): 43,1 mg/l

End point: Immobilization

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic plants : ErC50 (*Anabaena flos-aquae* (cyanobacterium)): 65,7 µg/l
Exposure time: 96 h
Method: OPPTS 850.5400
GLP: yes

NOEC (*Anabaena flos-aquae* (cyanobacterium)): 45 µg/l

Exposure time: 96 h

Method: OPPTS 850.5400

GLP: yes

ErC50 (*Selenastrum capricornutum* (green algae)): 157 µg/l

Exposure time: 72 h

GLP: yes

NOEC (*Selenastrum capricornutum* (green algae)): 50 µg/l

Exposure time: 72 h

GLP: yes

M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to fish (Chronic toxicity) : NOEC: 68 mg/l
Exposure time: 21 d
Species: *Oncorhynchus mykiss* (rainbow trout)

NOEC: 10 mg/l

End point: reproduction

Exposure time: 21 d

Species: *Pimephales promelas* (fathead minnow)

Method: OECD Test Guideline 229

GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3,13 mg/l
End point: reproduction
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

NOEC: 0,5 mg/l

Exposure time: 21 d

Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic toxicity) : 1.000

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toxicity)

Toxicity to soil dwelling organisms

: NOEC: 6 mg/kg
Exposure time: 56 d
Species: Eisenia fetida (earthworms)

NOEC: 5,6 mg/kg
End point: reproduction
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222
GLP:yes

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

Toxicity to terrestrial organisms

: LD50: > 50 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: Apis mellifera (bees)
Method: OEPP/EPPO Test Guideline 170

LD50: > 50 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: Apis mellifera (bees)
Method: OEPP/EPPO Test Guideline 170

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

NOEC: 1.000 mg/kg
End point: Reproduction Test
Species: Colinus virginianus

NOEC: 1.000 ppm
End point: Reproduction Test
Species: Anas platyrhynchos (Mallard duck)
Method: OECD Test Guideline 206

tribenuron-methyl (ISO):

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 : ErC50 (Raphidocelis subcapitata (freshwater green alga)):

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| | |
|--|---|
| plants | 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) 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) |

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Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 615 mg/l
Exposure time: 96 h

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

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

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Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
Remarks: Based on data from similar materials

sodium dodecyl sulphate:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
- LC50 (Fish): 3,6 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 5,55 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 53 mg/l
Exposure time: 72 h
Test Type: static test
- NOEC (Desmodesmus subspicatus (green algae)): 30 mg/l
Exposure time: 72 h
Test Type: static test
- Toxicity to microorganisms : EC50 (activated sludge): 135 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
- Toxicity to fish (Chronic toxicity) : NOEC: > 1,357 mg/l
Exposure time: 42 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Method: No data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,88 mg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia (water flea)
Test Type: flow-through test

kaolin:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
Exposure time: 72 h

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Method: OECD Test Guideline 201

Toxicity to microorganisms :
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

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:

florasulam (ISO):

Biodegradability : Result: Not readily biodegradable.

metsulfuron-methyl (ISO):

Biodegradability : Result: Not readily biodegradable.
Remarks: Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and water.

tribenuron-methyl (ISO):

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 5 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

sodium carbonate:

Biodegradability : Remarks: The methods for determining biodegradability are

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not applicable to inorganic substances.

sodium dodecyl sulphate:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 20 mg/l
Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

kaolin:

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:

florasulam (ISO):

Bioaccumulation : Bioconcentration factor (BCF): < 2,21
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 1 (20 °C)
pH: 4

log Pow: -1,22 (20 °C)
pH: 7

log Pow: -2,06 (20 °C)
pH: 10

metsulfuron-methyl (ISO):

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 28 d
Bioconcentration factor (BCF): < 1
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : Pow: 0,018 (25 °C)
log Pow: -1,7 (25 °C)
pH: 7

tribenuron-methyl (ISO):

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

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

Lignosulfonic acid, sodium salt, sulfomethylated:

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: -3,45

sodium carbonate:

Bioaccumulation : Remarks: Does not bioaccumulate.

sodium dodecyl sulphate:

Partition coefficient: n-octanol/water : log Pow: -2,03 (20 °C)

kaolin:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

12.4 Mobility in soil

Components:

florasulam (ISO):

Distribution among environmental compartments : Koc: 22 ml/g, log Koc: 1,34
Remarks: Highly mobile in soils

Stability in soil :

tribenuron-methyl (ISO):

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.

kaolin:

Distribution among environmental compartments : Remarks: Low mobility in soil

12.5 Results of PBT and vPvB assessment

Product:

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

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0.1% or higher.

12.6 Endocrine disrupting properties

Product:

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

12.7 Other adverse effects

Product:

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

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 3077 |
| ADR | : UN 3077 |
| RID | : UN 3077 |
| IMDG | : UN 3077 |
| IATA | : UN 3077 |

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14.2 UN proper shipping name

| | | |
|-------------|---|---|
| ADN | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl, Tribenuron-methyl, Florasulam) |
| ADR | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl, Tribenuron-methyl, Florasulam) |
| RID | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl, Tribenuron-methyl, Florasulam) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl, Tribenuron-methyl, Florasulam) |
| IATA | : | Environmentally hazardous substance, solid, n.o.s. (Metsulfuron-methyl, Tribenuron-methyl, Florasulam) |

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

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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) | : | Conditions of restriction for the following entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your vendor. |
| REACH - Candidate List of Substances of Very High | : | Not applicable |

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Concern for Authorisation (Article 59).

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. |

TBM 500 SG

| | |
|-------|--|
| 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. |
| H319 | : Causes serious eye irritation. |
| 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. |
| H412 | : Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

| | |
|------------------|---|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Short-term (acute) aquatic hazard |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam. | : Serious eye damage |
| 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 |
| 2004/37/EC | : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| BG OEL | : Bulgaria. Ordinance on the Protection of Workers from Risks related to Exposure to Chemical Agents at Work. |
| 2004/37/EC / TWA | : Long term exposure limit |
| BG OEL / TWA | : 8-hr Limit |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; 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 - Interna-

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tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|-------------------|------|
| Skin Sens. 1 | H317 |
| Eye Irrit. 2 | H319 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

Classification procedure:

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

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