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



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

1.1 Product identifier

Product name DINIRO® 4/40/10 WG

Other means of identification

Product code 50001496

Unique Formula Identifier

(UFI)

MHG0-X0MC-900Y-SKES

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

Use of the Sub-Herbicide

stance/Mixture

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 Chemicals Hellas MEPE

> Syngrou Avenue 348 17674 Kallithea

Greece

Telephone: +30 211 1982768 Telefax: +30 211 1138614

E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:

Greece: 30-2111768478 (CHEMTREC)

Medical emergency: Greece: 30 210 77 93 777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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



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Eye irritation, Category 2 H319: Causes serious eye irritation.

Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Cat-

egory 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 : H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

Prevention:

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container as hazardous waste in

accordance with local regulations.

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions 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.

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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

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sodium 3,6-dichloro-o-anisate	1982-69-0 217-846-3 607-243-00-7	Acute Tox. 4; H332 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 ————————————————————————————————————	>= 30 - < 50
Nicosulfuron	111991-09-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ————————————————————————————————————	>= 10 - < 20
prosulfuron (ISO)	94125-34-5 016-084-00-7	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100100 M-Factor (Chronic aquatic toxicity): 100100 Acute toxicity estimate	>= 2,5 - < 10

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sodium hydroxide	1310-73-2 215-185-5 011-002-00-6	Acute oral toxicity: 986 mg/kg Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 %	>= 0,5 - < 1			
Substances with a workplace exposure limit :						
kaolin	1332-58-7 310-194-1		>= 10 - < 20			

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : 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 ambu-

lance.

In case of skin contact : If on clothes, remove clothes.

If on skin, rinse well with water. Wash off with plenty of water.

Get medical attention if irritation develops and persists.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

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If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediate-

ly.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Risks : 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, CO2, water spray or regular foam.

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 prod- :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Nitrogen oxides (NOx)

Sulphur oxides Carbon oxides

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

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.

Keep people away from and upwind of spill/leak.

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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

Prevent product from entering drains. **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up 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

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flamma-

ble solvents.

This material can become readily charged in most operations.

Avoid formation of respirable particles.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against

fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

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Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological

safety standards.

Further information on stor-

age conditions

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 stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label

approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis	
		of exposure)			
kaolin	1332-58-7	TWA (Respirable	0,1 mg/m3	2004/37/EC	
		dust)			
	Further information: Carcinogens or mutagens				
sodium hydroxide	1310-73-2	TWA	2 mg/m3	GR OEL	
		STEL	2 mg/m3	GR OEL	

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

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.

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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.

When workers are facing concentrations above the exposure Respiratory protection

limit they must use appropriate certified respirators.

Protective measures Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

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 instruc-

tions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid

Form granules

Colour light brown

Odour No data available

Melting point/freezing point No data available

Boiling point/boiling range No data available

Flammability May form combustible dust concentrations in air.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower : No data available

flammability limit

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Flash point : No data available

Auto-ignition temperature : 500 °C

Decomposition temperature : No data available

pH : 6 - 10

Concentration: 1 %

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

Not available for this mixture.

Vapour pressure : Not available for this mixture.

Bulk density : 0,57 g/m3

Relative vapour density : No data available

Particle characteristics

Particle size : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammable solids

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



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Burning number : 2 (20 °C)

3 (100 °C)

Self-ignition : No data available

Minimum ignition energy : > 1.000 mJ

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Components:

sodium 3,6-dichloro-o-anisate:

Acute oral toxicity : LD50 (Rat, male and female): 4.600 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 4,46 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Remarks: Based on data from similar materials

Nicosulfuron:

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg

Method: OECD Test Guideline 425

Remarks: Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat): > 5,47 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Remarks: Information source: Internal study report

prosulfuron (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 986 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,4 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg

kaolin:

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 tox-

icity

Acute inhalation toxicity : LC50: 5,07 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 436

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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

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit

Result : No skin irritation

Components:

sodium 3,6-dichloro-o-anisate:

Species : Rabbit

Assessment : No skin irritation Result : slight irritation

Remarks : Based on data from similar materials

Nicosulfuron:

Assessment : No skin irritation

Method : OECD Test Guideline 404

prosulfuron (ISO):

Species : Rabbit

Result : No skin irritation

sodium hydroxide:

Result : Corrosive after 3 minutes or less of exposure

kaolin:

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Components:

sodium 3,6-dichloro-o-anisate:

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Species : Rabbit Result : Eye irritation

Nicosulfuron:

Assessment : No eye irritation

Method : OECD Test Guideline 405

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

prosulfuron (ISO):

Species : Rabbit

Result : No eye irritation

sodium hydroxide:

Result : Irreversible effects on the eye

kaolin:

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Did not cause sensitisation on laboratory animals.

Components:

sodium 3,6-dichloro-o-anisate:

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Nicosulfuron:

Species : Guinea pig

Assessment : Not a skin sensitizer.

Method : OECD Test Guideline 406

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

prosulfuron (ISO):

Species : Guinea pig

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Result : Did not cause sensitisation on laboratory animals.

sodium hydroxide:

Remarks : substance is corrosive

kaolin:

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

sodium 3,6-dichloro-o-anisate:

Germ cell mutagenicity- As-

sessment

Animal testing did not show any mutagenic effects., Based on

data from similar materials

Nicosulfuron:

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

prosulfuron (ISO):

Germ cell mutagenicity- As-

sessment

Animal testing did not show any mutagenic effects.

sodium hydroxide:

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

kaolin:

Genotoxicity in vitro : Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

sodium 3,6-dichloro-o-anisate:

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies., Based on

data from similar materials

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



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Nicosulfuron:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

prosulfuron (ISO):

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

sodium hydroxide:

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

sodium 3,6-dichloro-o-anisate:

Reproductive toxicity - As-

sessment

No toxicity to reproduction, Based on data from similar materi-

als

prosulfuron (ISO):

Reproductive toxicity - As-

sessment

No toxicity to reproduction

sodium hydroxide:

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

kaolin:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

Remarks: No data available

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:

kaolin:

Remarks : No significant adverse effects were reported

STOT - repeated exposure

Based on available data, the classification criteria are not met.

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Components:

sodium 3,6-dichloro-o-anisate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Remarks : Based on data from similar materials

kaolin:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

sodium 3,6-dichloro-o-anisate:

Species : Rat

NOAEL : 110 mg/kg Application Route : Oral Exposure time : 2 y

Remarks : Based on data from similar materials

prosulfuron (ISO):

Remarks : No adverse effect has been observed in chronic toxicity tests.

kaolin:

Remarks : No data available

Aspiration toxicity

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

Experience with human exposure

Components:

sodium hydroxide:

General Information : Symptoms: corrosive effects

Inhalation : Target Organs: Respiratory Tract

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Symptoms: corrosive effects

Skin contact : Target Organs: Skin

Symptoms: corrosive effects

Eye contact : Target Organs: Eyes

Symptoms: corrosive effects

Ingestion : Target Organs: Gastrointestinal tract

Symptoms: corrosive effects

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

0,73 mg/l

Exposure time: 72 h

ErC50 (Lemna gibba (gibbous duckweed)): 0,017 mg/l

Exposure time: 7 d

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0,046 mg/l

End point: Growth rate Exposure time: 72 h

NOEC (Lemna gibba (gibbous duckweed)): 0,006 mg/l

End point: Growth rate Exposure time: 7 d

EC10 (Raphidocelis subcapitata (freshwater green alga)):

0,34 mg/l

End point: Growth rate Exposure time: 72 h

EC10 (Lemna gibba (gibbous duckweed)): 0,0051 mg/l

End point: Growth rate Exposure time: 7 d

Components:

sodium 3,6-dichloro-o-anisate:

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

Exposure time: 96 h

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Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (algae): 3,7 - 41 mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials

EC50 (Skeletonema costatum (marine diatom)): Exposure

time: 120 h

Remarks: Based on data from similar materials

NOEC (Skeletonema costatum (marine diatom)): 0,011 mg/l

Exposure time: 120 h

Remarks: Based on data from similar materials

Toxicity to terrestrial organ-

isms

1.373 mg/kg

Species: Birds

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Nicosulfuron:

Toxicity to fish : LC50 (Salmo gairdneri): 65,7 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 90 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

IC50 (Scenedesmus subspicatus): 182 mg/l

Exposure time: 72 h

IC50 (Anabaena flos-aquae (cyanobacterium)): 7,8 mg/l

Exposure time: 72 h

EC50 (Lemna minor (duckweed)): 0,0017 mg/l

Exposure time: 7 d

M-Factor (Acute aquatic tox-

icity)

100

Toxicity to fish (Chronic tox-

icity)

NOEC: 10 mg/l

Exposure time: 28 d Species: Salmo gairdneri

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 25 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic

toxicity)

100

Toxicity to soil dwelling or-

ganisms

LC50: > 1.000 mg/kg Exposure time: 14 d

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Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

LD50: > 2.250 mg/kg

Species: Colinus virginianus (Bobwhite quail)

LD50: > 2.000 ppm

Species: Anas platyrhynchos (Mallard duck)

LC50: > 5.000 ppm Exposure time: 8 d

Species: Anas platyrhynchos (Mallard duck)

LD50: > 76 µg/bee

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

LD50: > 20 µg/bee

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.

prosulfuron (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)): > 120 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

0,074 mg/l

Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0,008 mg/l

Exposure time: 72 h

EC50 (Lemna gibba (gibbous duckweed)): 0,00126 mg/l

Exposure time: 14 d

NOEC (Lemna gibba (gibbous duckweed)): 0,00083 mg/l

Exposure time: 14 d

M-Factor (Acute aquatic tox-

icity)

100

100

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

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



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Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

NOEC: 5,8 mg/l Exposure time: 21 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 32 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic

toxicity)

100

100

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

Method: OECD Test Guideline 201

Toxicity to microorganisms

Remarks: No data available

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

Remarks: No data available

12.2 Persistence and degradability

Product:

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

Components:

sodium 3,6-dichloro-o-anisate:

Biodegradability : Result: Not readily biodegradable.

Remarks: Based on data from similar materials

Nicosulfuron:

Biodegradability : Result: Not readily biodegradable.

Remarks: Primary degradation half-lives vary with circum-

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



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stances, from a few weeks to a few months in aerobic soil and

water.

prosulfuron (ISO):

Biodegradability : Result: Not readily biodegradable.

kaolin:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

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

Components:

sodium 3,6-dichloro-o-anisate:

Bioaccumulation : Remarks: Low potential for bioaccumulation

Based on data from similar materials

Nicosulfuron:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: -0,36 (25 °C)

pH: 4

log Pow: -1,77 (25 °C)

pH: 7

log Pow: -2 (25 °C)

pH: 9

prosulfuron (ISO):

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-

octanol/water

: log Pow: -0,76 (25 °C)

pH: 9

log Pow: -0,21 (25 °C)

pH: 6,9

log Pow: 1,5 (25 °C)

pH: 5

kaolin:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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



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Partition coefficient: n-

octanol/water

Remarks: Not applicable

12.4 Mobility in soil

Product:

Distribution among environ-

mental compartments

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

Components:

sodium 3,6-dichloro-o-anisate:

Distribution among environ-

mental compartments

Remarks: Highly mobile in soils
Based on data from similar materials

Stability in soil : Dissipation time: 1,4 - 11 d

Percentage dissipation: 50 %

Remarks: not persistent, Based on data from similar materials

Nicosulfuron:

Distribution among environ-

mental compartments

Remarks: Mobile in soils

prosulfuron (ISO):

Distribution among environ-

mental compartments

Remarks: Highly mobile in soils

kaolin:

Distribution among environ-

mental 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

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

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



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12.7 Other adverse effects

Product:

Additional ecological infor-

mation

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 chemi-

cal 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 han-

dling 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

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(prosulfuron, Nicosulfuron)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(prosulfuron, Nicosulfuron)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(prosulfuron, Nicosulfuron)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(prosulfuron, Nicosulfuron)

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



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IATA : Environmentally hazardous substance, solid, n.o.s.

(prosulfuron, Nicosulfuron)

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

IATA (Cargo)

Packing instruction (cargo : 956

aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen: 956

ger aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADN

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



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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

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

E1

ENVIRONMENTAL HAZARDS

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



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dangerous substances.

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.

Nicosulfuron prosulfuron (ISO)

sodium 3,6-dichloro-o-anisate

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

H290 : May be corrosive to metals. H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H332 : Harmful if inhaled. 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

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Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Met. Corr. : Corrosive to metals

Skin Corr. : Skin corrosion

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

GR OEL : Greece. Exposure limit values 2004/37/EC / TWA : Long term exposure limit GR OEL / TWA : Long term exposure limit GR OEL / STEL : Short term exposure 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 - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -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: Classification procedure:

Eye Irrit. 2 H319 Based on product data or assessment
Aquatic Acute 1 H400 Based on product data or assessment
Aquatic Chronic 1 H410 Based on product data or assessment

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