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

1.1 Product identifier

Product name TREMISIA™ fungicide

Other means of identification

Product code 50002363

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

Use of the Sub- : Fungicide

stance/Mixture

Recommended restrictions

on use

Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address FMC Ukraine LLC

8 Illinska Street 04070 Kyiv Ukraine

Telephone: +380443648258, Website: fmc.com.ua E-mail address: SDS-Info@fmc.com, info@fmc.com.ua .

1.4 Emergency telephone number

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

Ukraine: 380-947101374 (CHEMTREC)

Medical emergency:

All other countries: +1 651 / 632-6793 (Collect)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

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Long-term (chronic) aquatic hazard, Cat-

H411: Toxic to aquatic life with long lasting effects.

egory 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

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*

Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P261 Avoid breathing mist or vapours.P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

Disposal:

P501 Dispose of contents/container as hazardous waste in

accordance with local regulations.

Hazardous components which must be listed on the label:

Flutriafol

Additional Labelling

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

reaction.

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

tions for use.

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Fluindapyr	1383809-87-7	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	20,9
Flutriafol	76674-21-0	Acute Tox. 4; H302 Aquatic Chronic 2; H411	20,9
propane-1,2-diol	57-55-6 200-338-0		>= 1 - < 10
Poly(oxy-1,2-ethanediyl), .alpha tridecylomegahydroxy-, phos- phate, potassium salt	68186-36-7	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2,5
Sodium alkylnaphthalenesulfonate formaldehyde condensate	68425-94-5	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 1 - < 2,5
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 2; H330 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,0025 - < 0,025

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.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes. If potential for exposure exists refer to Section 8 for specific

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personal protective equipment.

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 soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Do not induce vomiting without medical advice.

Let the exposed person rinse mouth and let him/her drink several glasses of water, but do not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again.

Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Contains a triazole. Symptoms may include nausea, vomiting,

diarrhea, visual changes, hallucinations, rash, itching, and

alopecia.

Risks : Harmful if swallowed or if inhaled.

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.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing : High volume water jet

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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.

Carbon oxides Sulphur oxides

Nitrogen oxides (NOx) Fluorine compounds Hydrogen cyanide Hydrogen fluoride Fluorinated compounds

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

SO

Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment. If it can be safely done, stop the leak.

Do not touch or walk through the spilled material. 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 further leakage or spillage if safe to do so.

Prevent product from entering drains.

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 : Never return spills in original containers for re-use.

Collect as much of the spill as possible with a suitable absor-

bent material.

Pick up and transfer to properly labelled containers. 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 : Do not breathe vapours/dust.

For personal protection see section 8. Avoid formation of respirable particles.

Dispose of rinse water in accordance with local and national

regulations.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : Avoid contact with skin, eyes and clothing. Do not inhale aer-

osol. 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, ventilat-

ed and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. 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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
propane-1,2-diol	57-55-6	MAC (aerosol	7 mg/m3	UA OEL
		and vapour)		
	Further information: Danger class 3			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg

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

Substance name	Environmental Compartment	Value
1,2-benzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l
	Marine water	0,000403 mg/l
	Sewage treatment plant	1,03 mg/l
	Fresh water sediment	0,0499 mg/l
	Marine sediment	0,00499 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

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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 : suspension
Colour : light brown
Odour : Faint odour
Odour Threshold : No data available
pH : 6.42 (22.1 °C)

(1% solution in water)

Melting point/ range : not determined

Boiling point/boiling range

not determined

No data available

Flash point : $> 100 \, ^{\circ}\text{C}$

Evaporation rate : No data available Upper explosion limit / Upper : No data available

flammability limit

Lower explosion limit / Lower

flammability limit

Vapour pressure : Not available for this mixture.

Relative vapour density : No data available

Relative density

Density : 1,1470 g/cm3 (22,7 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : dispersible Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature : No data available
Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 365,0 mPa,s (21,5 °C)

295,8 mPa,s (41,5 °C)

Viscosity, kinematic : 365 mm2/s (21,5 °C)

295,8 mm2/s (41,5 °C)

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Explosive properties

Not explosive

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

9.2 Other information

Molecular weight : Not applicable
Particle size : Not applicable
Particle Size Distribution : Not applicable
Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Avoid extreme temperatures

Avoid formation of aerosol.

Protect from frost, heat and sunlight.

Heating of the mixture may evolve harmful and irritant va-

pours.

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 toxicological effects

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg

Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,12 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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Method: OECD Test Guideline 403

Symptoms: hypoactivity, Breathing difficulties

Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 402

Symptoms: Irritation

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: no mortality

Components:

Fluindapyr:

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

Method: OECD Test Guideline 423

GLP: yes

Assessment: The component/mixture is minimally toxic after

single ingestion. Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,19 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403 Symptoms: ataxia, Breathing difficulties

GLP: yes

Remarks: no mortality

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

Method: OECD Test Guideline 402

Symptoms: Irritation

GLP: yes

Assessment: The component/mixture is minimally toxic after

single contact with skin. Remarks: no mortality

Flutriafol:

Acute oral toxicity : LD50 (Rat, female): 300 - 2.000 mg/kg

Method: OECD Test Guideline 423

Target Organs: Liver, Gastrointestinal tract

Symptoms: Fatality

GLP: yes

Assessment: The component/mixture is moderately toxic after

single ingestion.

LD50 (Rat, female): 1.030 mg/kg Method: OECD Test Guideline 425

Target Organs: Liver, Gastrointestinal tract

Symptoms: Breathing difficulties

Acute inhalation toxicity : LC50 (Rat): > 5,2 mg/l

Exposure time: 4 h

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Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Symptoms: Fatality, ataxia, Breathing difficulties

GLP: yes

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

Method: OECD Test Guideline 402

GLP: yes

Remarks: no mortality

LD50 (Rat, 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

propane-1,2-diol:

Acute oral toxicity : LD50 (Rat, male and female): 22.000 mg/kg

Acute inhalation toxicity : LC0 (Rabbit): 31,7 mg/l

Exposure time: 2 h
Test atmosphere: vapour
Remarks: no mortality

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

Assessment: The substance or mixture has no acute dermal

toxicity

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Acute oral toxicity : Assessment: Toxic effects cannot be excluded

Sodium alkylnaphthalenesulfonate formaldehyde condensate:

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

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

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg

Method: OECD Test Guideline 401

Acute toxicity estimate: 450 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI

of Regulation (EC) No 1272/2008 (CLP Regulation)

Acute inhalation toxicity : Acute toxicity estimate: 0,21 mg/l

Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI

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of Regulation (EC) No 1272/2008 (CLP Regulation)

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

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

tion.

Components:

Fluindapyr:

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 404

GLP : yes

Assessment : Not classified as irritant

Method : EPISKIN Human Skin Model Test

Flutriafol:

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Species : Rabbit

Result : No skin irritation

propane-1,2-diol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Result : Skin irritation

Sodium alkylnaphthalenesulfonate formaldehyde condensate:

Remarks : No data available

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

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Components:

Fluindapyr:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

Method : Bovine cornea (BCOP)

Result : not corrosive

GLP : yes

Flutriafol:

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 405

Result : slight irritation

GLP : yes

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 405
Result : Slight or no eye irritation

GLP : yes

Species : Rabbit
Result : slight irritation

propane-1,2-diol:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Result : Irreversible effects on the eye

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Sodium alkylnaphthalenesulfonate formaldehyde condensate:

Result : Eye irritation

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

Species : Bovine cornea

Method : OECD Test Guideline 437

Result : No eye irritation

Species : Rabbit

Method : EPA OPP 81-4

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin contact

Species : Mouse

Method : OECD Test Guideline 429

Result : Did not cause sensitisation on laboratory animals.

Components:

Fluindapyr:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin contact

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

GLP : yes

Flutriafol:

Test Type : Buehler Test Exposure routes : Skin contact Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

GLP : yes

Species : Guinea pig

Result : Not a skin sensitizer.

propane-1,2-diol:

Test Type : Maximisation Test

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Species : Guinea pig Result : negative

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

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

Species : Guinea pig Method : FIFRA 81.06

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

Fluindapyr:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: gene mutation test Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 490

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid ex-

change

Species: Mouse Result: negative

Test Type: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

Result: negative

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Flutriafol:

Genotoxicity in vivo : Test Type: dominant lethal test

Method: OECD Test Guideline 478

Result: negative

propane-1,2-diol:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative

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

Genotoxicity in vitro : Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Rat (male) Cell type: Liver cells

Application Route: Ingestion

Exposure time: 4 h

Method: OECD Test Guideline 486

Result: negative

Test Type: Micronucleus test

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

Not classified based on available information.

Components:

Fluindapyr:

Species : Mouse

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Application Route : Oral

Exposure time : 18 month(s)

Method : OECD Test Guideline 451
Result : Not a carcinogenic hazard

Species : Rat
Application Route : Oral
Exposure time : 2 Years

Method : OECD Test Guideline 453
Result : Not a carcinogenic hazard

GLP : yes

Flutriafol:

Species : Mouse Exposure time : 2 Years

NOAEL : 1,2 mg/kg bw/day

Result : negative

Species : Rat Exposure time : 2 Years

NOAEL : 1 mg/kg bw/day

Result : negative

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

propane-1,2-diol:

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

Fluindapyr:

Effects on fertility : Test Type: Two-generation study

General Toxicity - Parent: NOEL: ca. 100 ppm

Fertility: NOAEL: ca. 400 ppm

Early Embryonic Development: NOAEL: ca. 400 ppm

Method: OECD Test Guideline 416

GLP: yes

Flutriafol:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Method: OECD Test Guideline 416

Result: negative

Effects on foetal develop- : Test Type: Embryo-foetal development

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ment Method: OECD Test Guideline 414

Result: negative

propane-1,2-diol:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Mouse Application Route: Oral Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 414

Result: Animal testing did not show any effects on fertility.

Remarks: Based on data from similar materials

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

Effects on fertility : Species: Rat, male

Application Route: Ingestion

General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight

General Toxicity F1: NOAEL: 48 mg/kg body weight

Fertility: NOAEL: 112 mg/kg bw/day

Symptoms: No effects on reproduction parameters

Method: OPPTS 870.3800

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT - single exposure

Not classified based on available information.

Components:

Flutriafol:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

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

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

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Fluindapyr:

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Species : Rat

NOAEL : 1.000 mg/kg
Application Route : Dermal
Exposure time : 21 d

Number of exposures : 5 d/w for 6 hr

Dose : 0,100,300,1000 mg/kg bw/d
Method : OECD Test Guideline 410

GLP : yes

Symptoms : Skin irritation

Flutriafol:

Species : Rat

NOAEL : 13.3 mg/kg bw/day

Application Route : Oral - feed

Exposure time : 90 d

Symptoms : anemia, Liver effects

Species : Dog

NOAEL : 5 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Symptoms : blood effects, Liver effects

propane-1,2-diol:

Species : Rat, male and female

NOAEL : 1.700 mg/kg
Application Route : Oral
Exposure time : 2 Years

Species : Rat, male and female

NOAEL : 1.000 mg/kg LOAEL : 160 mg/kg Application Route : Inhalation Exposure time : 90 Days

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

Species : Rat, male and female

NOAEL : 15 mg/kg Application Route : Ingestion Exposure time : 28 d

Method : OECD Test Guideline 407

Symptoms : Irritation

Species : Rat, male and female

NOAEL : 69 mg/kg Application Route : Ingestion Exposure time : 90 d

Symptoms : Irritation, Reduced body weight

Aspiration toxicity

Not classified based on available information.

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Components:

Flutriafol:

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

Neurological effects

Components:

Fluindapyr:

Remarks : <** Phrase language not available: [6N] CUST -

FMC_00000000094 **>

Flutriafol:

No neurotoxicity observed in animal studies

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 0,91 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3,8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 2,5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EyC50 (Raphidocelis subcapitata (freshwater green alga)): 9,6

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

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

9,9 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to soil dwelling or-

ganisms

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

Species: Eisenia fetida (earthworms)

20 / 35

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Method: OECD Test Guideline 207

Method: OECD Test Guideline 216

Remarks: No significant adverse effect on nitrogen mineraliza-

tion.

Method: OECD Test Guideline 217

Remarks: No significant adverse effect on carbon mineraliza-

tion.

Toxicity to terrestrial organ-

isms

LD50: 946 mg/kg Exposure time: 14 d

End point: Acute oral toxicity

Species: Colinus virginianus (Bobwhite quail)

Method: OECD Test Guideline 223

LD50: 240 µg/bee Exposure time: 48 h

End point: Acute contact toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 214

LD50: 24 µg/bee Exposure time: 48 h

End point: Acute oral toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 213

Remarks: Active ingredient

Components:

Fluindapyr:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,121 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Oryzias latipes (Japanese medaka)): > 1,8 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Danio rerio (zebra fish)): 0,424 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Cyprinodon variegatus (sheepshead minnow)): 0,43

mg/l

Exposure time: 96 h

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> Test Type: static test Method: OPPTS 850.1075

GLP: yes

LC50 (Cyprinus carpio (Carp)): 0,11 mg/l

Exposure time: 96 h

Test Type: Static renewal test Method: OECD Test Guideline 203

GLP: yes

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,286 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,141 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

LC50 (Americamysis bahia (mysid shrimp)): 0,33 mg/l

Exposure time: 96 h Test Type: static test Method: OCSPP 850.1035

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 4,83

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Lemna gibba (duckweed)): 2 mg/l

Exposure time: 7 d

Method: OECD Test Guideline 221

GLP: yes

EC50 (Skeletonema costatum (Diatom)): > 2 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic tox- :

icity)

: 1

Toxicity to fish (Chronic tox-

icity)

: NOEC: 0,031 mg/l Exposure time: 32 d

Species: Pimephales promelas (fathead minnow)

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Test Type: Early-life Stage

Method: OECD Test Guideline 210

GLP: yes

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,062 mg/l Exposure time: 28 d

Species: Americamysis bahia (mysid shrimp)

Test Type: flow-through test Method: OPPTS 850.1350

GLP: yes

NOEC: 0,12 mg/l End point: reproduction Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

GLP: yes

NOEC: 68 mg/l Exposure time: 42 d

Species: Hyalella azteca (Amphipod)

Test Type: Static renewal test

GLP: yes

M-Factor (Chronic aquatic

toxicity)

1

Toxicity to soil dwelling or-

ganisms

LC50: > 1.000 mg/kg

Species: Eisenia fetida (earthworms)

Method: OECD Test Guideline 216

Remarks: No significant adverse effect on nitrogen mineraliza-

tion.

Method: OECD Test Guideline 217

Remarks: No significant adverse effect on carbon mineraliza-

tion.

Toxicity to terrestrial organ-

isms

LD50: 1.612 mg/kg

Species: Colinus virginianus (Bobwhite quail)

Method: OECD Test Guideline 205

GLP:yes

LD50: 2.250 mg/kg

Species: Colinus virginianus (Bobwhite quail)

Method: OPPTS 850.2100

GLP:yes

LD50: > 300 µg/bee Exposure time: 48 h

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

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GLP:yes

Remarks: Contact

LD50: > 32,8 μ g/bee Exposure time: 48 h

Species: Apis mellifera (bees) Method: OECD Test Guideline 213

GLP:yes Remarks: Oral

NOEC: 679 mg/kg

End point: Reproduction Test

Species: Anas platyrhynchos (Mallard duck)

Method: OECD Test Guideline 206

GLP:yes

NOEC: 174 mg/kg

End point: Reproduction Test

Species: Colinus virginianus (Bobwhite quail)

Method: OECD Test Guideline 206

GLP:yes

Flutriafol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 33 mg/l

Exposure time: 96 h

LC50 (Danio rerio (zebra fish)): 22,97 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 67 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

EC50 (Daphnia magna (Water flea)): 42,21 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

IC50 (Selenastrum capricornutum (green algae)): 12 mg/l

Exposure time: 96 h

IC50 (Scenedesmus subspicatus): 1,9 mg/l

Exposure time: 72 h

EbC50 (Lemna gibba (duckweed)): 0,65 mg/l

Exposure time: 7 d

EyC50 (Pseudokirchneriella subcapitata (algae)): 3,69 mg/l

Exposure time: 72 h

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Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic tox-

icity)

NOEC: 4,8 mg/l

Exposure time: 28 d

Species: Lepomis macrochirus (Bluegill sunfish)

NOEC: 20 mg/l Exposure time: 14 d

Species: Danio rerio (zebra fish) Method: OECD Test Guideline 204

NOEC: 0,1 mg/l End point: Growth

Species: Pimephales promelas (fathead minnow)

Test Type: Early Life-Stage

Method: OECD Test Guideline 210

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,31 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

NOEC: 0,45 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Toxicity to soil dwelling or-

ganisms

NOEC:

0.01 mg/cm2

Exposure time: 180 d

Species: Eisenia fetida (earthworms)

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

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

Toxicity to terrestrial organ-

isms

LD50: > 144 µg/bee

End point: Acute oral toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 213

GLP:yes

LD50: > 150 µg/bee

End point: Acute contact toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 214

GLP:yes

LD50: > 100 µg/bee

End point: Acute contact toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 214

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LD50: 872,53 µg/bee Exposure time: 48 h

End point: Acute oral toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 213

LD50: > 5.000 mg/kg

Species: Anas platyrhynchos (Mallard duck)

LD50: ca. 385 mg/kg

Species: Coturnix japonica (Japanese quail) Method: US EPA Test Guideline OPPTS 850.2100

LD50: 4260 ppm

Species: Coturnix japonica (Japanese quail)

Method: OPPTS 850.2200

propane-1,2-diol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40.613 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

(Mysidopsis bahia (opossum shrimp)): 18.800 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 34.100

mg/l

Exposure time: 48 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 20.000 mg/l

Exposure time: 18 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 13.020 mg/l Exposure time: 7 d

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Sodium alkylnaphthalenesulfonate formaldehyde condensate:

Toxicity to fish : LC50 (Zebra fish): > 10 - 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

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Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC10: > 10 - 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

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

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7

mg/l

Exposure time: 96 h Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

: ′

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

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

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EC50 (activated sludge): 12,8 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

M-Factor (Chronic aquatic

toxicity)

: 1

12.2 Persistence and degradability

Product:

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

Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water

treatment plants.

Components:

Fluindapyr:

Biodegradability : Result: Not readily biodegradable.

Flutriafol:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Does not readily hydrolyze

propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 23,6 % Exposure time: 64 d

Method: OECD Test Guideline 306

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Remarks: Based on data from similar materials

Sodium alkylnaphthalenesulfonate formaldehyde condensate:

Biodegradability : Result: Not readily biodegradable.

Remarks: Based on data from similar materials

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

Biodegradability : Result: rapidly biodegradable

Method: OECD Test Guideline 301C

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12.3 Bioaccumulative potential

Product:

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

Components:

Fluindapyr:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): < 500 Method: OECD Test Guideline 305

GLP: yes

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: > 3

Flutriafol:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 7 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2,29

propane-1,2-diol:

Partition coefficient: n-

octanol/water

log Pow: -1,07

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

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 56 d

Bioconcentration factor (BCF): 6,62 Method: OECD Test Guideline 305

Remarks: Substance is not persistent, bioaccumulative, and

toxic (PBT).

Partition coefficient: n-

octanol/water

log Pow: 0,7 (20 °C)

pH: 7

log Pow: 0,99 (20 °C)

pH: 5

12.4 Mobility in soil

Product:

Distribution among environ-

mental compartments

Remarks: No data is available on the product itself.

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Components:

Fluindapyr:

Distribution among environ-

mental compartments

Remarks: Low mobility in soil

Flutriafol:

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Stability in soil : Remarks: Very persistent in soil.

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

Distribution among environ-

mental compartments

Koc: 9,33 ml/g, log Koc: 0,97 Method: OECD Test Guideline 121 Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

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.

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Components:

Flutriafol:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

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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

 ADR
 : UN 3082

 IMDG
 : UN 3082

 IATA
 : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Fluindapyr, Flutriafol)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Fluindapyr, Flutriafol)

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

(Fluindapyr, Flutriafol)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

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IMDG

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

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen: 964

ger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

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DSL : This product contains chemical substance(s) exempt from

CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control

product.

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

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.

H330 : Fatal if inhaled.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.
 H411 : 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

UA OEL : Ukraine OEL - Order on Approval of the Hygienic Regulations

of Chemicals in the Air of the Working Zone

UA OEL / MAC : Maximum allowable concentration

TREMISIA™ fungicide



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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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Acute Tox. 4	H302	Based on product data or assessment
Acute Tox. 4	H332	Based on product data or assessment
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 2	H411	Calculation method

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