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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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

1.1 Product identifier

Product name FLUTRIAFOL 25 G/L SC

Other means of identification

Product code 50000694

Unique Formula Identifier

(UFI)

0MUY-92FV-4N4Q-959Y

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.

For professional and industrial use only

1.3 Manufacturer or supplier's details

Supplier Address FMC Agricultural Solutions A/S

Thyborønvej 78 DK-7673 Harboøre

Denmark

Telephone: +45 9690 9690 Telefax: +45 9690 9691

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

1.4 Emergency telephone number

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

Denmark: +45-69918573 (CHEMTREC)

Medical emergency:

Denmark: +45 82 12 12 12

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

Long-term (chronic) aquatic hazard, Cat-

H412: Harmful to aquatic life with long lasting ef-

egory 3 f

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/container as hazardous waste in

accordance with local regulations.

Additional Labelling

EUH208 Contains disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2,7-

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

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.

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

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
disodium 5-acetylamino-4-	3734-67-6	Skin Sens. 1B; H317	>= 1 - < 10
hydroxy-3-	223-098-9		
(phenylazo)naphthalene-2,7-			

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

disulphonate			
Flutriafol	76674-21-0	Acute Tox. 4; H302 Aquatic Chronic 2; H411	>= 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 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 >= 0,036 % Acute toxicity estimate	>= 0,025 - < 0,036
		Acute oral toxicity: 450 mg/kg Acute inhalation tox-	
		icity (dust/mist): 0,21 mg/l	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

If inhaled : 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.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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.

Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : When fed to animals at high dosage, the product caused sali-

vation, depression of activity, muscle spasms, ataxia and in-

creased body temperature.

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.

Hydrogen fluoride Nitrogen oxides (NOx) Fluorinated compounds

Hydrogen cyanide Sulphur oxides

Carbon oxides

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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 : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

If it can be safely done, stop the leak.

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.

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 : Avoid contact with skin and eyes.

For personal protection see section 8.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Avoid contact with skin,

eyes and clothing. Do not inhale aerosol.

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. Protect

from frost, fire, heat and direct sunlight.

Recommended storage tem- :

perature

< 25 °C

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

Contains no substances with occupational exposure limit values.

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

	,	5 5	` '	
Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
1,2-benzisothiazol-	Workers	Inhalation	Long-term systemic	6,81 mg/m3
3(2H)-one			effects	

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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 concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

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 : liquid Form : suspension

Colour : red

Odour : hydrocarbon-like

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

Odour Threshold : No data available

Melting point/freezing point : < 0 °C Boiling point/boiling range : > 100 °C

Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower : No data available

flammability limit

Flash point : > 105 °C

Method: closed cup

Auto-ignition temperature : 420 °C

Decomposition temperature : No data available

pH : 7,0

Concentration: 1 %

No data available

8,1

(undiluted)

Viscosity

Viscosity, dynamic : 1.100 mPa.s Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : dispersible

Partition coefficient: n- : Not available for this mixture.

octanol/water

Vapour pressure : Not available for this mixture.

Density : 1,05 g/cm3 (20 °C) Relative vapour density : No data available

Particle characteristics

Particle size : Not applicable

9.2 Other information

Explosives : Not explosive
Oxidizing properties : Non-oxidizing
Evaporation rate : No data available
Molecular weight : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Avoid formation of aerosol.

Protect from frost.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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

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

Product:

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

Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 5,75 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

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

Method: OECD Test Guideline 402

Components:

disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate:

Acute oral toxicity : LD50 (Mouse, male): > 5.000 mg/kg

Method: OECD Test Guideline 401

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: ves

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

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Symptoms: Fatality, ataxia, Breathing difficulties

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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

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

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

Method: OECD Test Guideline 401

Acute toxicity estimate: 450 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI

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

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

Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI

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

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

Method: OECD Test Guideline 402

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

Method : OECD Test Guideline 404

Result : No skin irritation

Components:

Flutriafol:

Species : Rabbit

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

Result : No skin irritation

GLP : yes

Species : Rabbit

Result : No skin irritation

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

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

Product:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

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

tion.

Components:

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

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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:

Species : Guinea pig

Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Components:

disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate:

Assessment : The product is a skin sensitiser, sub-category 1B.

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.

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

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

Components:

Flutriafol:

Genotoxicity in vivo : Test Type: dominant lethal test

Method: OECD Test Guideline 478

Result: negative

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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

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

Components:

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.

Reproductive toxicity

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

Components:

Flutriafol:

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

Method: OECD Test Guideline 416

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development Method: OECD Test Guideline 414

Result: negative

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

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

Components:

Flutriafol:

Remarks : No significant adverse effects were reported

STOT - repeated exposure

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

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:

Flutriafol:

Species : Rat

NOAEL : 13.3 mg/kg bw/day

Application Route : Oral - feed Exposure time : 90 d

Symptoms : anemia, Liver effects

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

Species : Dog

NOAEL : 5 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Symptoms : blood effects, Liver effects

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

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

Components:

Flutriafol:

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 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.

Neurological effects

Components:

Flutriafol:

No neurotoxicity observed in animal studies

Further information

Product:

Remarks : To our knowledge, adverse effects in humans have not been

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

reported. When fed to animals at high dosage, similar compounds caused salivation, depression of activity, muscle

spasms, ataxia and increased body temperature.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,9 mg/l

Exposure time: 96 h

Remarks: Information given is based on data obtained from

similar product.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 7,5 mg/l

Exposure time: 48 h

Remarks: Information given is based on data obtained from

similar product.

Toxicity to algae/aquatic

plants

EC50 (Skeletonema costatum (Diatom)): 3,2 mg/l

Exposure time: 72 h

Remarks: Information given is based on data obtained from

similar product.

EC50 (Pseudokirchneriella subcapitata (green algae)): 4,3

mg/l

Exposure time: 72 h

Remarks: Information given is based on data obtained from

similar product.

Toxicity to terrestrial organ-

isms

LD50: > 2.000 mg/kg

Exposure time: 14 d

Species: Coturnix japonica (Japanese quail)

Remarks: Information given is based on data obtained from

similar product.

LD50: > 100 µg/bee Exposure time: 48 h

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

Remarks: Information given is based on data obtained from

similar product.

Ecotoxicology Assessment

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

Remarks: Expert judgement

Components:

Flutriafol:

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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 μ g/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

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

Ecotoxicology Assessment

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

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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)

1

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

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

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

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

M-Factor (Chronic aquatic

toxicity)

: 1

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Product contains minor amounts of not readily bio-

degradable components, which may not be degradable in

waste water treatment plants.

Components:

Flutriafol:

Biodegradability : Result: Not readily biodegradable.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

Stability in water : Remarks: Does not readily hydrolyze

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

Biodegradability : Result: rapidly biodegradable

Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Product:

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

Components:

Flutriafol:

Bioaccumulation : Species: Fish

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

Partition coefficient: n-

octanol/water

log Pow: 2,29

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.

Components:

Flutriafol:

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Stability in soil : Remarks: Very persistent in soil.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

20.09.2024 50000694 Date of first issue: 20.09.2024 1.0

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:

This substance/mixture contains no components considered Assessment

> 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.

12.7 Other adverse 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.

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.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

SECTION 14: Transport information

14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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, 3

If you intend to use this product as tattoo ink, please contact your ven-

dor.

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) on substances that deplete 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 dangerous substances.

Not 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.

Flutriafol

Alcohols, C13-15, branched and linear, ethoxylated

mixture of polyorganosiloxanes and fillers

ENCS : Not in compliance with the inventory

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

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.

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.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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

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



FLUTRIAFOL 25 G/L SC

Version Revision Date: SDS Number: Date of last issue: -

1.0 20.09.2024 50000694 Date of first issue: 20.09.2024

- 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:

Aquatic Chronic 3 H412 Based on product data or assessment

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