

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

FLUAZINAM 500SC

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

1.1 Product identifier:

Product name : FLUAZINAM 500SC
Synonyms : Altima; Dirango; Frowncide; Ibiza; IKF-1216; Legacy; Mapro; Ohayo; Sekoya; Shirlan; Shirlan 500 SC; Winner
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Fungicide

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

ISK Biosciences Europe N.V.
Pegasus Park, De Kleetlaan 12B - box 9
B-1831 Diegem, Belgium
☎ +32 2 627 86 11
✉ +32 2 627 86 00
isk-msds@isk.be

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Repr.	category 2	H361d: Suspected of damaging the unborn child.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Repr. Cat. 3; R63 - Possible risk of harm to the unborn child.

R43 - May cause sensitisation by skin contact.

N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)



Contains: fluazinam.

Signal word Warning

H-statements

H361d Suspected of damaging the unborn child.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

P-statements

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)
Technische Schoolstraat 43 A, B-2440 Geel
<http://www.big.be>
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Reason for revision: 2.2
Revision number: 0202

Publication date: 2002-06-17
Date of revision: 2015-05-25

Product number: 24038

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134-15857-465-en

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P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P261	Avoid breathing vapours/mist.
P280	Wear protective gloves and protective clothing.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards:

CLP

In dry state: combustible

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
fluazinam	79622-59-6	C=50 %	Xn; R20 Xi; R38 - 41 Repr. Cat. 3; R63 R43 N; R50-53	Repr. 2; H361d Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(9)	Constituent

(1) For R-phrases and H-statements in full: see heading 16

(9) M-factor, see heading 16

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

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After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, hydrofluoric acid, carbon monoxide - carbon dioxide).

5.3 Advice for firefighters:

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up:

Take up liquid spill into absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Provide for a tub to collect spills. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

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If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.
The product will only be used as fungicide.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

High gas/vapour concentration: gas mask with filter type A.

b) Hand protection:

Gloves.

c) Eye protection:

Face shield.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Liquid
Odour	No data available on odour
Odour threshold	No data available
Colour	Light yellow
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	0.062 Pa.s
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	> 1
Vapour pressure	No data available
Solubility	No data available
Relative density	1.3
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties

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Oxidising properties	No chemical group associated with oxidising properties
pH	6.56 ; 1 %

9.2 Other information:

Absolute density	1290 kg/m ³
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SECTION 10: Stability and reactivity

10.1 Reactivity:

Substance has neutral reaction.

10.2 Chemical stability:

No data available.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, hydrofluoric acid, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 2000 mg/kg		Rat	Experimental value	
Dermal	LD50		> 2000 mg/kg		Rat	Experimental value	
Inhalation	LC50		> 1.15 mg/l	4 h	Rat	Experimental value	

fluazinam

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 4100 mg/kg		Rat	Experimental value	
Dermal	LD50		> 2000 mg/kg		Rat	Experimental value	
Inhalation	LC50	Equivalent to OECD 403	1.1 mg/l	4 h	Rat (male/female)	Experimental value	

Judgement of the mixture is based on test data on the mixture as a whole

Conclusion

Not classified for acute toxicity

Corrosion/irritation

FLUAZINAM 500SC

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating					Experimental value	

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage				Rabbit	Experimental value	
Skin	Moderately irritating				Rat	Experimental value	

Judgement of the mixture is based on test data on the mixture as a whole

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

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Respiratory or skin sensitisation

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No (test)data on the mixture available

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Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing					Experimental value	

Classification is based on the relevant ingredients

Conclusion

May cause an allergic skin reaction.

Specific target organ toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available

Mutagenicity (in vivo)

FLUAZINAM 500SC

No (test)data on the mixture available

Carcinogenicity

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No (test)data on the mixture available

Reproductive toxicity

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No (test)data on the mixture available

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	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	10 mg/kg bw/day		Rat	Fetotoxicity, teratogenicity, maternal toxicity		Experimental value
	LOAEL	Equivalent to OECD 414	250 mg/kg bw/day		Rat	Slowing ossification		Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	10 mg/kg bw/day		Rat			Experimental value

Classification is based on the relevant ingredients

Conclusion CMR

Suspected of damaging the unborn child.

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

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ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

SECTION 12: Ecological information

12.1 Toxicity:

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.061 mg/l	96 h	Salmo gairdneri			Experimental value
Acute toxicity invertebrates	EC50		0.119 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	EC50		0.534 mg/l	72 h	Selenastrum capricornutum			Experimental value

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.036 mg/l	96 h	Oncorhynchus mykiss			Experimental value
Acute toxicity invertebrates	EC50		0.19 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	EC50		0.16 mg/l	96 h	Selenastrum capricornutum			Experimental value

Classification of the mixture is based on test data on the mixture as a whole

Conclusion

Highly toxic to fishes
 Very toxic to invertebrates (Daphnia)
 Highly toxic to algae
 Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

fluazinam

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
	16.4 day(s)		Calculated value

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

fluazinam

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		1090		Lepomis macrochirus	Calculated value

Log Kow

Method	Remark	Value	Temperature	Value determination
		4.03		

Conclusion

Contains bioaccumulative component(s)

12.4 Mobility in soil:

fluazinam

(log) Koc

Parameter	Method	Value	Value determination
Koc		1958 l/kg	Experimental value

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

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Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

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Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

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Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

02 01 08* (wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing: agrochemical waste containing dangerous substances).

Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove to an incinerator for chlorinated waste materials with energy recovery. Remove waste in accordance with local and/or national regulations.

Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fluazinam)
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14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fluazinam)
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14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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Reason for revision: 2.2

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14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fluazinam)
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14.3 Transport hazard class(es):

Class	9
Classification code	M6

14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fluazinam)
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14.3 Transport hazard class(es):

Class	9
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14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Marine pollutant	P
Environmentally hazardous substance mark	yes

14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	969
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	Not applicable, based on available data
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Air (ICAO-TI/IATA-DGR)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (fluazinam)
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14.3 Transport hazard class(es):

Class	9
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14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	A97
Special provisions	A158
Special provisions	A197
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	No data available

Plant protection products - listed ingredient

Contains component(s) included in implementing Regulation (EU) No 540/2011

European drinking water standards (Directive 98/83/EC)

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Parameter	Parametric value	Note	Reference
Pesticides	0,1 µg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.
Pesticides — Total	0,5 µg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.

REACH Annex XVII - Restriction

Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

The identified uses are not covered by restrictions of Annex XVII of Regulation (EC) No 1907/2006

National legislation The Netherlands

FLUAZINAM 500SC

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	4

fluazinam

SZW - List of reprotoxic substances (development)	Possibly hazardous to the foetus
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National legislation Germany

FLUAZINAM 500SC

Lagerklasse (TRGS510)	12: Nicht brennbare Flüssigkeiten
WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

National legislation France

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No data available

National legislation Belgium

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No data available

Other relevant data

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No data available

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels

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Harmful



Dangerous for the environment

Contains: fluazinam.

R-phrases

- 43 May cause sensitisation by skin contact
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
63 Possible risk of harm to the unborn child

S-phrases

- (02) (Keep out of the reach of children)
13 Keep away from food, drink and animal feeding stuffs
20/21 When using do not eat, drink or smoke
24 Avoid contact with skin
35 This material and its container must be disposed of in a safe way
36/37/39 Wear suitable protective clothing gloves, and eye/face protection
(46) (If swallowed, seek medical advice immediately and show this container or label)
57 Use appropriate container to avoid environmental contamination

Additional recommendations

To avoid risks to man and the environment, comply with the instructions for use

Full text of any R-phrases referred to under headings 2 and 3:

- R20 Harmful by inhalation
R38 Irritating to skin
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R50 Very toxic to aquatic organisms
R53 May cause long-term adverse effects in the aquatic environment
R63 Possible risk of harm to the unborn child

Full text of any H-statements referred to under headings 2 and 3:

- H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

- DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

M-factor

fluazinam	10		BIG
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