

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## ZIGNAL® 500 SC

Version	Revision Date:	SDS Number:	Date of last issue: -
2.2	26.10.2022	50000004	Date of first issue: 02.08.2021

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

#### 1.1 Product identifier

**Product name** ZIGNAL® 500 SC

#### Other means of identification

**Product code** 50000004

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

<b>Use of the Sub- stance/Mixture</b>	Fungicide
<b>Recommended restrictions on use</b>	Use as recommended by the label.

#### 1.3 Details of the supplier of the safety data sheet

**Supplier Address** FMC Agricultural Solutions A/S  
Thyborønvej 78  
DK-7673 Harbøre  
Denmark

Telephone: +45 9690 9690  
Telefax: +45 9690 9691  
E-mail address: SDS-Info@fmc.com (E-Mail General Infor-  
mation)

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Finland: 358-942419014 (CHEMTREC)

Medical emergency:  
Finland: 0800 147 111

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Sub-category 1B	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.

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Short-term (acute) aquatic hazard, Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1

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

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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

Precautionary statements : P102 Keep out of reach of children.

#### Prevention:

P261 Avoid breathing vapours.  
P281 Use personal protective equipment as required.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P391 Collect spillage.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Hazardous components which must be listed on the label:

fluazinam (ISO)  
1,2-benzisothiazol-3(2H)-one

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For special phrases (SP) and safety intervals, consult the label.

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
fluazinam (ISO)	79622-59-6 612-287-00-5	Acute Tox. 4; H332 Eye Dam. 1; H318 Skin Sens. 1A; H317 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10  Acute toxicity estimate  Acute inhalation toxicity (dust/mist): 1,68 mg/l	>= 30 - < 50
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 1 - < 2,5
Alcohols, C13-15, branched and linear, ethoxylated	157627-86-6 500-337-8	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 1 - < 2,5

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		Aquatic Chronic 2; H411	
		M-Factor (Acute aquatic toxicity): 1	
		Acute toxicity esti- mate	
		Acute oral toxicity: 500 mg/kg	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	$\geq 0,0025 - < 0,025$
		M-Factor (Acute aquatic toxicity): 10	
		specific concentration limit Skin Sens. 1; H317 $\geq 0,05 \%$	
		Acute toxicity esti- mate	
		Acute oral toxicity: 500,0 mg/kg 490 mg/kg	

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical  
advice.  
If symptoms persist, call a physician.
- 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 if irritation develops and persists.

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- |                        |   |
|------------------------|---|
| In case of eye contact | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.   |
| If swallowed           | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.<br>Do not induce vomiting without medical advice. |

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

- |       |   |
|-------|---|
| Risks | : Irritation and allergic reactions. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis. In animal tests, the main symptoms after oral intake were disturbance of respiration and decreased activity.<br><br>May cause an allergic skin reaction.<br>Suspected of damaging the unborn child. |
|-------|---|

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

- |           |                          |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Dry chemical, CO <sub>2</sub> , water spray or regular foam. |
| Unsuitable extinguishing media | : High volume water jet  |

### 5.2 Special hazards arising from the substance or mixture

- |                                       |   |
|---------------------------------------|---|
| Specific hazards during fire-fighting | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products         | : Hazardous combustion products<br>Halogenated compounds<br>Nitrogen oxides (NO <sub>x</sub> )<br>Carbon oxides<br>Ammonia<br>Hydrogen fluoride<br>Hydrogen chloride<br>Sulphur oxides<br>Chlorine compounds<br>Fluorine compounds<br>Thermal decomposition can lead to release of irritating gases |

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and vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : 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 circumstances 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.

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## 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.  
Use personal protective equipment.  
Never return spills in original containers for re-use.  
For disposal considerations see section 13.

### 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not inhale aerosol.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage 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:

Substance name	End Use	Exposure routes	Potential health effects	Value
urea	Workers	Inhalation	Long-term systemic effects	292 mg/m3
	Workers	Inhalation	Acute systemic effects	292 mg/m3
	Workers	Dermal	Long-term systemic	580 mg/kg

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			effects	bw/day
	Workers	Dermal	Acute systemic effects	580 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	125 mg/m3
	Consumers	Inhalation	Acute systemic effects	125 mg/m3
	Consumers	Dermal	Long-term systemic effects	580 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	580 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	42 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	42 mg/kg bw/day
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
fluazinam (ISO)	Water	530 ng/l
urea	Fresh water	0,47 mg/l
	Marine water	0,047 mg/l
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 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 case of mist, spray or aerosol exposure wear suitable per-



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sonal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product. In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow, red brown
Odour	: odourless
Odour Threshold	: No data available
Melting point/range	: not determined
Boiling point/boiling range	: No data available
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Flash point	: > 103 °C Method: Pensky-Martens closed cup - PMCC
Decomposition temperature	: not determined
pH	: 7,5 - 8,3
Viscosity	
Viscosity, dynamic	: 15,5 mPa,s (20 °C)
Viscosity, kinematic	: 1094 - 1406 mm <sup>2</sup> /s
Solubility(ies)	
Water solubility	: Miscible
Partition coefficient: n-octanol/water	: Not available for this mixture.
Vapour pressure	: 0,0011 Pa (20 °C)
Relative density	: 1,2547 (20 °C)

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Density	:	1,2547 g/cm <sup>3</sup>
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable
Particle Size Distribution	:	Not applicable
Shape	:	Not applicable

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	No data available
Flammability (liquids)	:	may be ignitable
Self-ignition	:	> 400 °C

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Avoid extreme temperatures Avoid formation of aerosol. Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid	:	Avoid strong acids, bases, and oxidizers
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### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

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### SECTION 11: Toxicological information

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

##### Acute toxicity

Not classified based on available information.

##### Product:

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 Oral (Rat): > 2.000 mg/kg<br>Method: OECD Test Guideline 425<br>Assessment: The component/mixture is minimally toxic after single ingestion.  |
| Acute inhalation toxicity | : LC50 (Rat): > 3,56 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The component/mixture is minimally toxic after short term inhalation.<br>Remarks: No adverse effect has been observed in acute toxicity tests. |
| Acute dermal toxicity     | : LD50 Dermal (Rat): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The component/mixture is minimally toxic after single contact with skin.  |

##### Components:

##### **fluazinam (ISO):**

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat, male): > 4.100 mg/kg<br>Method: OECD Test Guideline 425   |
| Acute inhalation toxicity | : LC50 (Rat, male): 1,68 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br><br>Acute toxicity estimate: 1,68 mg/l<br>Test atmosphere: dust/mist<br>Method: Calculation method |
| Acute dermal toxicity     | : LD50 (Rat): > 2.000 mg/kg<br>Method: OECD Test Guideline 402   |

##### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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

##### **Alcohols, C13-15, branched and linear, ethoxylated:**

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Acute oral toxicity : LD50 (Rat): 500 - 2.000 mg/kg

Acute toxicity estimate: 500 mg/kg  
Method: Calculation method

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

Acute oral toxicity : Acute toxicity estimate: 500,0 mg/kg  
Method: Converted acute toxicity point estimate

LD50 (Rat, male and female): 490 mg/kg  
Method: OECD Test Guideline 401

Acute toxicity estimate: 490 mg/kg  
Method: Calculation method

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  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Remarks : Minimal effects that do not meet the threshold for classification.

#### Components:

##### fluazinam (ISO):

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Remarks : Minimal effects that do not meet the threshold for classification.

### Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Remarks : No data available

### Alcohols, C13-15, branched and linear, ethoxylated:

Result : No skin irritation

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

Species : Rabbit  
Exposure time : 72 h

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Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405  
Remarks : Minimal effects that do not meet the threshold for classification.

#### Components:

##### fluazinam (ISO):

Assessment : Risk of serious damage to eyes.  
Remarks : Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Moderate eye irritation

### Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Result : Eye irritation

### Alcohols, C13-15, branched and linear, ethoxylated:

Result : Irreversible effects on the eye

### 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

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Product:

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

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Method : OECD Test Guideline 429  
Result : Causes skin sensitization.

### Components:

#### **fluazinam (ISO):**

Assessment : The product is a skin sensitiser, sub-category 1A.  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.

#### **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.

### Product:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Components:

#### **fluazinam (ISO):**

Germ cell mutagenicity- Assessment : No genotoxic potential

#### **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)

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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- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

Not classified based on available information.

#### Product:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### Components:

##### **fluazinam (ISO):**

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

### Reproductive toxicity

Suspected of damaging the unborn child.

#### Product:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

#### Components:

##### **fluazinam (ISO):**

Effects on foetal development : Species: Rat  
Symptoms: Fetal effects, placental abnormalities, fused or incompletely ossified sternebrae, abnormalities of the head bones, not developed renal papillae and distended ureter  
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

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

Effects on fertility : Species: Rat, male

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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 - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT - single exposure

Not classified based on available information.

#### Product:

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

#### Components:

##### **fluazinam (ISO):**

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

### STOT - repeated exposure

Not classified based on available information.

#### Product:

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

#### 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:

##### **fluazinam (ISO):**

Species : Rat  
LOAEL : 41 mg/kg, 500 ppm  
Exposure time : 90 days  
Target Organs : Liver  
Symptoms : Reduced body weight, increased liver weight

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

Species : Rat, male and female



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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.

### Components:

#### fluazinam (ISO):

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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

#### Product:

Remarks	:	No data available
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### Components:

#### fluazinam (ISO):

Remarks	:	Irritation and allergic reactions. In animal tests, the main symptoms after oral intake were disturbance of respiration and decreased activity. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis.
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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0,16 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,23 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic plants                    | : | EC50 (Desmodesmus subspicatus (green algae)): 0,13 mg/l<br>Exposure time: 96 h<br><br>ErC50 (Lemna gibba (duckweed)): 0,57 mg/l<br>Exposure time: 7 d<br><br>NOEC (Lemna gibba (duckweed)): 0,094 mg/l<br>Exposure time: 7 d  |
| Toxicity to soil dwelling organisms                 | : | LC50: > 1.000 mg/kg<br>Exposure time: 14 d<br>Species: Eisenia fetida (earthworms)  |
| Toxicity to terrestrial organisms                   | : | LD50: > 100 µg/bee<br>Exposure time: 48 h<br>End point: Acute oral toxicity<br>Species: Apis mellifera (bees)<br><br>LD50: > 100 µg/bee<br>Exposure time: 48 h<br>End point: Acute contact toxicity<br>Species: Apis mellifera (bees)<br><br>LD50: > 2.000 mg/kg<br>Species: Coturnix japonica (Japanese quail) |

##### **Ecotoxicology Assessment**

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

##### Components:

##### **fluazinam (ISO):**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0,11 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,19 mg/l<br>Exposure time: 48 h          |

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Toxicity to algae/aquatic plants	:	IC50 (Selenastrum capricornutum (green algae)): > 0,2 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to microorganisms	:	EC50 (activated sludge): 75 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,012 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: < 0,0125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	10
Toxicity to soil dwelling organisms	:	LC50: > 1.000 mg/kg Exposure time: 28 d Species: Eisenia fetida (earthworms)
Toxicity to terrestrial organisms	:	LD50: > 4.190 mg/kg Species: Anas platyrhynchos (Mallard duck)  LD50: 1.782 mg/kg Species: Colinus virginianus (Bobwhite quail)

### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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 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

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Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic 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

### Alcohols, C13-15, branched and linear, ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1 - 10 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 - 10 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus subspicatus): 1 - 10 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,1 - 1 mg/l

### 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 toxicity) : 10

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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

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### Components:

##### **fluazinam (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Remarks: It undergoes degradation in the environment and in waste water treatment plants.

##### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

##### **Alcohols, C13-15, branched and linear, ethoxylated:**

Biodegradability : Result: Readily biodegradable.

##### **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:

##### **fluazinam (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 500 - 800  
Remarks: Low potential for bioaccumulation

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Partition coefficient: n-  
octanol/water : log Pow: 4,67 (21 °C)  
pH: 7

log Pow: 3,34 (22 °C)  
pH: 9

### Alcohols, C13-15, branched and linear, ethoxylated:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 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: This substance is not considered to be persistent,  
bioaccumulating 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:

#### fluazinam (ISO):

Distribution among environ-  
mental compartments : Remarks: Low mobility 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.

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### 12.6 Endocrine disrupting properties

**Product:**

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

### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very 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 chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Do not re-use empty containers. Packaging that is not properly emptied must be disposed of as the unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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	N.O.S. (Fluazinam)
<b>RID</b>	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)
<b>IMDG</b>	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)
<b>IATA</b>	: Environmentally hazardous substance, liquid, n.o.s. (Fluazinam)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 9	
<b>ADR</b>	: 9	
<b>RID</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
<b>ADR</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
<b>RID</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
<b>IMDG</b>	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Miscellaneous



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### IATA (Passenger)

Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Miscellaneous

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament	: Not applicable

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ment and the Council concerning the export and import  
of dangerous chemicals

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

Seveso III: Directive 2012/18/EU of the Euro- E1 ENVIRONMENTAL HAZARDS  
pean Parliament and of the Council on the  
control of major-accident hazards involving  
dangerous substances.

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations,  
where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national  
regulations, where applicable.

### The components of this product are reported in the following inventories:

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  fluazinam (ISO) mixture of polyorganosiloxanes and fillers Alcohols, C13-15, branched and linear, ethoxylated
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).

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### 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.
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.
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
Repr.	: Reproductive toxicity
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 - 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

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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:

Skin Sens. 1B	H317
Repr. 2	H361d
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment

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