

# SAFETY DATA SHEET



## IMPACT 125 SC

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

#### 1.1 Product identifier

**Product name** IMPACT 125 SC

#### Other means of identification

**Product code** 50000346

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

Use of the Sub-stance/Mixture : Can be used as fungicide only.

Recommended restrictions on use : Use as recommended by the label.

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

**Supplier Address** FMC CHEMICALS (PTY) LTD  
COMPANY REGISTRATION NUMBER: 1988/001451/07  
WEST END OFFICE PARK, BUILDING C  
CNR. WEST AVE & HALL STREET 0014  
CENTURION, 0014 SOUTH AFRICA  
  
E-mail address: SDS-Info@fmc.com (E-Mail General Information)

#### 1.4 Emergency telephone

For leak, fire, spill or accident emergencies, call:  
South Africa: 0-800-983-611 (CHEMTREC)

Medical emergency:  
For any emergency or poisoning contact: Griffon Poison Information Centre (24 hrs) - +27-(0)-82-446-8946

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin sensitization, Sub-category 1B H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

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**2.2 Label elements****Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

**Prevention:**

P261 Avoid breathing mist or vapors.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

**Response:**

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

Hazardous ingredients which must be listed on the label:

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



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
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Precautionary Statements :

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

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Flutriafol	76674-21-0	Acute Tox. 4; H302 Aquatic Chronic 2; H411	$\geq 2.5 - < 10$
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 Aquatic Chronic 2; H411	$\geq 0.025 - < 0.05$
Substances with a workplace exposure limit :			
propane-1,2-diol	57-55-6 200-338-0		$\geq 1 - < 10$

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.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- If inhaled : Call a physician or poison control center immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

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In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, call a poison control center or doctor immediately.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.  
  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Risks : May cause an allergic skin reaction.

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

Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
  
Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.  
  
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 products : Thermal decomposition can lead to release of irritating gases and vapors.  
Nitrogen oxides (NO<sub>x</sub>)

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Carbon oxides  
Fluorinated compounds

**5.3 Advice for firefighters**

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

Firefighters should wear protective clothing and self-contained breathing apparatus.

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 : 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.

Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
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.

**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.  
  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

**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.

Never return spills in original containers for re-use.

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Pick up and transfer to properly labeled containers.  
Collect as much of the spill as possible with a suitable absorbent material.

**6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.  
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 : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- For personal protection see section 8.  
Avoid formation of respirable particles.  
Dispose of rinse water in accordance with local and national regulations.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Normal measures for preventive fire protection.
- Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
- General industrial hygiene practice. Do not breathe dust.

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

- Requirements for storage areas and containers : Prevent unauthorized access. 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. 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.

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**7.3 Specific end use(s)**

Specific use(s) : The product is an approved pesticide and can only be used for the purposes for which it is approved, according to the conditions contained in the label approved by the competent 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	Routes of exposure	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Consumers	Inhalation	Long-term local effects	10 mg/m3
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
Flutriafol	Water	6.2 µg/l
propane-1,2-diol	Fresh water	260 mg/l
	Intermittent use/release	183 mg/l
	Sea water	26 mg/l
	Sewage treatment plant	20 g/l
	Fresh water sediment	572 mg/kg
	Sea sediment	57.2 mg/kg
	Soil	50 mg/kg
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Sea water	0.000403 mg/l
	Sewage treatment plant	1.03 mg/l
	Fresh water sediment	0.0499 mg/l
	Sea sediment	0.00499 mg/l

**8.2 Exposure controls****Personal protective equipment**

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear a faceshield or other full face protection if there is a

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potential for direct contact to the face with dusts, mists, or aerosols.

### Hand protection

Material : Protective gloves

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : suspension

Color : blend of white and brown

No data available

Odor : unpleasant

No data available

Odor Threshold : No data available

pH : 6.5 (25 °C)  
Concentration: 10 g/l  
(1% solution in water)

7.1 (25 °C)

No data available

Melting point/freezing point : < 0 °C

Melting point/range : No data available

Boiling point/boiling range : 99 °C

No data available

Flash point : > 99 °C  
Method: Pensky-Martens closed cup - PMCC

No data available



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Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : not determined

No data available

Lower explosion limit / Lower flammability limit : not determined

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.06 g/cm<sup>3</sup> (20 °C)

No data available

Solubility(ies)

Water solubility : emulsifiable

No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

No data available

Viscosity

Viscosity, dynamic : 83 - 560 mPa.s (20 °C)

No data available

Viscosity, kinematic : 78 - 528 mm<sup>2</sup>/s (20 °C)

64 - 429 mm<sup>2</sup>/s (40 °C)

No data available

Explosive properties : Not explosive

Not explosive

Oxidizing properties : Non-oxidizing

Non-oxidizing

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### 9.2 Other information

Flammability (liquids)	:	Will not burn
Molecular weight	:	Not applicable
Particle size	:	Not applicable
Self-ignition	:	does not ignite

No data available

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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.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

Avoid extreme temperatures.  
Avoid formation of aerosol.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents  
Strong acids and strong bases

Avoid strong acids, bases, and oxidizers.

### 10.6 Hazardous decomposition products

See subsection 5.2.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

Acute oral toxicity	:	LD50 (Rat): > 3,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat): > 2.1 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg  
Method: OECD Test Guideline 402

### **Components:**

#### **Flutriafol:**

Acute oral toxicity : LD50 (Rat): 1,140 - 1,480 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.2 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

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

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

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

#### **propane-1,2-diol:**

Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg

Acute inhalation toxicity : LC0 (Rabbit): 31.7 mg/l  
Exposure time: 2 h  
Test atmosphere: vapor  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

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**Components:****Flutriafol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
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

**propane-1,2-diol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

**Serious eye damage/eye irritation****Product:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	slight irritation

**Components:****Flutriafol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

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

Species	:	Bovine cornea
Method	:	OECD Test Guideline 437
Result	:	No eye irritation

Species	:	Rabbit
Method	:	EPA OPP 81-4
Result	:	Irreversible effects on the eye

**propane-1,2-diol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

**Respiratory or skin sensitization****Product:**

Test Type	:	Buehler Test
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Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	The product is a skin sensitizer, sub-category 1B.

### Components:

#### **Flutriafol:**

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Not a skin sensitizer.

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

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	May cause sensitization by skin contact.

Species	:	Guinea pig
Method	:	FIFRA 81.06
Result	:	May cause sensitization by skin contact.

#### **propane-1,2-diol:**

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	negative

### **Germ cell mutagenicity**

#### Components:

#### **Flutriafol:**

Genotoxicity in vivo	:	Test Type: dominant lethal test Method: OECD Test Guideline 478 Result: negative
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#### **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
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- 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- Assessment : Weight of evidence does not support classification as a germ cell mutagen.
- propane-1,2-diol:**
- Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative
- Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

### Carcinogenicity

#### 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 - Assessment : Animal testing did not show any carcinogenic effects.

##### **propane-1,2-diol:**

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

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**Reproductive toxicity****Components:****Flutriafol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Animal testing showed no developmental toxicity.

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

**propane-1,2-diol:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Mouse  
Application Route: Oral  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: Animal testing did not show any effects on fertility.  
Remarks: Based on data from similar materials

**STOT-single exposure****Components:****Flutriafol:**

Assessment : May cause respiratory irritation.

**STOT-repeated exposure****Components:****1,2-benzisothiazol-3(2H)-one:**

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

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**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

Species	: Dog
NOAEL	: 5 mg/kg bw/day
Application Route	: Oral
Exposure time	: 90 d
Symptoms	: anemia, 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

**propane-1,2-diol:**

Species	: Rat, male and female
NOAEL	: 1,700 mg/kg
Application Route	: Oral
Exposure time	: 2 Years

Species	: Rat, male and female
NOAEL	: 1,000 mg/kg
LOAEL	: 160 mg/kg
Application Route	: Inhalation
Exposure time	: 90 Days

**Aspiration toxicity****Product:**

No aspiration toxicity classification

**Components:****Flutriafol:**

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



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**Neurological effects****Components:****Flutriafol:**

No neurotoxicity observed in animal studies.

**Further information****Product:**

Remarks : No data available

**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish	: LC50 (Salmo gairdneri): 7.9 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 7.5 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 10 mg/l Exposure time: 72 h  ErC50 (Skeletonema costatum (Diatom)): 4.7 mg/l Exposure time: 72 h  EC50 (Lemna gibba (gibbous duckweed)): 53 mg/l Exposure time: 7 d  NOEC (Lemna gibba (gibbous duckweed)): 1.1 mg/l Exposure time: 7 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0.1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials
Toxicity to terrestrial organisms	: LD50: > 2,000 mg/kg Exposure time: 14 d Species: Coturnix japonica (Japanese quail) Remarks: Based on data from similar materials  LD50: > 100 µg/bee Exposure time: 48 h End point: Acute oral toxicity Species: Apis mellifera (bees)

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**Components:****Flutriafol:**

- |  |   |   |
|--|---|---|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 61 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 78 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic plants                                       | : | IC50 (Selenastrum capricornutum (green algae)): 12 mg/l<br>Exposure time: 96 h<br><br>IC50 (Scenedesmus subspicatus): 1.9 mg/l<br>Exposure time: 72 h   |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC: 6.2 mg/l<br>Exposure time: 28 d<br>Species: Oncorhynchus mykiss (rainbow trout)   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.31 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)   |
| Toxicity to soil dwelling organisms                                    | : | NOEC:<br>0.01 mg/cm <sup>2</sup><br>Exposure time: 180 d<br>Species: Eisenia fetida (earthworms)  |
| Toxicity to terrestrial organisms                                      | : | LD50: > 50 µg/bee<br>End point: Acute contact toxicity<br>Species: Apis mellifera (bees)<br><br>LD50: > 2 µg/bee<br>End point: Acute oral toxicity<br>Species: Apis mellifera (bees)<br><br>LD50: > 5,000 mg/kg<br>Species: Anas platyrhynchos (Mallard duck) |

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

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Cyprinodon variegatus (sheepshead minnow)): 16.7 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): 2.15 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 2.9 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202   |

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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

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

### propane-1,2-diol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 34,100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l  
Exposure time: 7 d

## 12.2 Persistence and degradability

### Components:

#### Flutriafol:

Biodegradability : Result: Not readily biodegradable.

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

Biodegradability : Result: rapidly biodegradable  
Method: OECD Test Guideline 301C

#### propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 23.6 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306

**12.3 Bioaccumulative potential****Components:****Flutriafol:**

Bioaccumulation : Species: *Salmo gairdneri*  
Bioconcentration factor (BCF): 7  
Remarks: Bioaccumulation is unlikely.  
See section 9 for octanol-water partition coefficient.

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: 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

**propane-1,2-diol:**

Partition coefficient: n-octanol/water : log Pow: -1.07

**12.4 Mobility in soil****Components:****Flutriafol:**

Distribution among environmental compartments : Remarks: medium mobility in soil

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

Distribution among environmental compartments : Koc: 9.33, log Koc: 0.97  
Method: OECD Test Guideline 121

**12.5 Results of PBT and vPvB assessment**

Not relevant

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**12.6 Other adverse effects****Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

**Components:****Flutriafol:**

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

---

**SECTION 14: Transport information****14.1 UN number**

IMDG	: UN 3082
IATA	: UN 3082

**14.2 UN proper shipping name**

IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flutriafol)
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**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Flutriafol)

### 14.3 Transport hazard class(es)

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

#### **IMDG**

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

#### **IATA (Cargo)**

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

#### **IATA (Passenger)**

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

### 14.5 Environmental hazards

#### **IMDG**

Marine pollutant : yes

### 14.6 Special precautions for user

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

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

**The ingredients 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

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on the Canadian DSL nor NDSL.

Sulfurous acid, monosodium salt, reaction products with cresol-formaldehydenonylphenol polymer (average MW 300-600)  
Siloxanes and Silicones, di-Me, reaction products with chlorotrimethylsilane, iso-Pr alc., silica and sodium silicate  
Flutriafol  
Agalmatolite  
Sodium alkylphthalenesulfonate, formaldehyde condensate

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**

No Chemical Safety Assessment has been carried out for this 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.
H400	:	Very toxic to aquatic life.
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 sensitization

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 as-

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sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Other information :

### Classification of the mixture:

Skin Sens. 1B	H317
Aquatic Chronic 1	H410

### Classification procedure:

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

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