

# SAFETY DATA SHEET



## TETFLUPYROLIMET 400 g/L SC

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### SECTION 1. IDENTIFICATION

Product name : TETFLUPYROLIMET 400 g/L SC

#### Manufacturer or supplier's details

Company : FMC Colombia S.A.S.

Address : Calle 108 # 45 30. Torre 2,  
Of. 1004-1005  
Bogotá D.C - Colombia

Telephone : +571 635150

Emergency telephone : 1 703 / 741-5970 (CHEMTREC - International)  
+55 11 4349 1359 (CHEMTREC); +57 601 7942539  
(CHEMTREC Bogota)  
Colombia: 911

Medical Emergency Number : Desde Bogotá: 288 60 12; Línea Nacional: 01 8000 916012  
Desde Ecuador: 1800 593005 (Quito, La Sierra, Centro y Norte).  
Desde Perú: SAMU: 106;  
CISPROQUIM®: 080-050-847;  
FMC LATINOAMERICA S.A. SUCURSAL: 421-4811;  
Desde Venezuela: 0800 1005012

#### Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

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### GHS label elements

Hazard pictograms



Signal Word

: Warning

Hazard Statements

: H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

**Prevention:**

P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**Disposal:**

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

### Classification Information

Hazard Statements required by Andean Technical Manual for the Registration and Control of Chemical Pesticides for Agricultural Use (Resolution no. 2075):  
Harmful if swallowed, in contact with skin or if inhaled.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Tetflupyrolimet	2053901-33-8	>= 30 -< 50
Sodium alkyl naphthalene sulfonate	68425-94-5	>= 2,5 -< 5

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1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0,0025 -< 0,025
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### SECTION 4. 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 : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed, in contact with skin or if inhaled.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Fluorinated compounds  
Hydrogen cyanide

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- 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.  
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.
- Special protective equipment for fire-fighters : Use personal protective equipment.  
Wear self-contained breathing apparatus for firefighting if necessary.  
Firefighters should wear protective clothing and self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
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.
- Conditions for safe storage : 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.

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Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection	: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
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.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	: Protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	: Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Ensure that eye flushing systems and safety showers are located close to the working place. Wear suitable protective equipment.
Hygiene measures	: Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : liquid

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Color	:	off-white
Odor	:	mild
Odor Threshold	:	No data available
pH	:	5,4 Method: OCSPP 830.7000 (1% solution in water)
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 100,5 °C  Method: Regulation (EC) No. 440/2008, Annex, A.9 does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	543 °C Method: EEC A.15
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1,143 g/cm <sup>3</sup> (20 °C) Method: OPPTS 830.7300
Solubility(ies)		
Water solubility	:	dispersible
Solubility in other solvents	:	No data available Solvent: organic solvent
Partition coefficient: n-octanol/water	:	No data available

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Autoignition temperature : No data available

Decomposition temperature : No data available

### Viscosity

Viscosity, dynamic : ca. 441,9 mPa.s ( 40 °C)  
Method: CIPAC MT 192  
40 rpm

ca. 546,6 mPa.s ( 40 °C)  
Method: CIPAC MT 192  
30 rpm

ca. 735,8 mPa.s ( 40 °C)  
Method: CIPAC MT 192  
20 rpm

ca. 504,9 mPa.s ( 20 °C)  
Method: CIPAC MT 192  
40 rpm

ca. 617,2 mPa.s ( 20 °C)  
Method: CIPAC MT 192  
30 rpm

ca. 823,8 mPa.s ( 20 °C)  
Method: CIPAC MT 192  
20 rpm

Viscosity, kinematic : No data available

Explosive properties : Not explosive  
Method: Regulation (EC) No. 440/2008, Annex, A.14

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Method: Regulation (EC) No. 440/2008, Annex, A.21

Molecular weight : Not applicable

Particle size : Not applicable

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

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Conditions to avoid	: Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	: Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	: Stable under recommended storage conditions.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity	: LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 425  Assessment: The component/mixture is moderately toxic after single ingestion. Remarks: Resolution no. 2075
Acute inhalation toxicity	: LC50 (Rat, male and female): > 5,12 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity  Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Resolution no. 2075
Acute dermal toxicity	: LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity  Assessment: The component/mixture is moderately toxic after single contact with skin. Remarks: Resolution no. 2075

#### Components:

#### **Tetflupyrolimet:**

Acute oral toxicity	: LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: LC50 (Rat): > 5,08 mg/l Exposure time: 4 h



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Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The component/mixture is minimally toxic after single contact with skin.

### **Sodium alkyl naphthalene sulfonate:**

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

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

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

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

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

### **Product:**

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

### **Components:**

#### **Tetflupyrolimet:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation

#### **Sodium alkyl naphthalene sulfonate:**

Remarks : No data available

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

Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Not classified due to lack of data.

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### **Product:**

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

### **Components:**

#### **Tetflupyrolimet:**

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

#### **Sodium alkyl naphthalene sulfonate:**

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

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

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

### **Respiratory or skin sensitization**

#### **Skin sensitization**

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

#### **Respiratory sensitization**

Not classified due to lack of data.

### **Product:**

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

### **Components:**

#### **Tetflupyrolimet:**

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
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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.

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### **Tetflupyrolimet:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: mice  
Method: OECD Test Guideline 474  
Result: negative

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

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Cell type: Liver cells

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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 due to lack of data.

#### **Components:**

##### **Tetflupyrolimet:**

Species : Mouse, male and female  
Application Route : Oral  
Exposure time : 18 month(s)  
NOAEL : 924 - 982,2 mg/kg bw/day  
Method : OECD Test Guideline 451

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

Not classified due to lack of data.

#### **Components:**

##### **Tetflupyrolimet:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Ingestion  
Fertility: NOAEL: 5.000 ppm  
Early Embryonic Development: NOAEL: 5.000 ppm  
Method: OECD Test Guideline 416  
Result: negative

Effects on fetal development : Test Type: Pre-natal  
Species: Rabbit, female  
Duration of Single Treatment: 7 - 28 d  
General Toxicity Maternal: NOAEL: 200 mg/kg bw/day  
Teratogenicity: NOAEL: 200 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

Test Type: Pre-natal

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Species: Rat, female  
Duration of Single Treatment: 6 - 20 d  
General Toxicity Maternal: NOAEL: 1.000 mg/kg bw/day  
Teratogenicity: NOAEL: 1.000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

### **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

### **STOT-single exposure**

Not classified due to lack of data.

#### **Components:**

#### **Tetflupyrolimet:**

Remarks : No significant adverse effects were reported

### **STOT-repeated exposure**

Not classified due to lack of data.

#### **Components:**

#### **Tetflupyrolimet:**

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

### **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:**

#### **Tetflupyrolimet:**

Species : Rat, male and female

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NOAEL : 116 - 136 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Symptoms : Hematologic effects

Species : Mouse, male and female  
NOAEL : 1.100 - 1.300 mg/kg  
Application Route : Oral  
Exposure time : 90 d

Species : Dog, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Symptoms : Hematologic effects

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

Species : Rat, male and female  
NOAEL : 15 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d  
Method : OECD Test Guideline 407  
Symptoms : Irritation

Species : Rat, male and female  
NOAEL : 69 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Symptoms : Irritation, Reduced body weight

### **Aspiration toxicity**

Not classified due to lack of data.

### **Components:**

#### **Tetflupyrolimet:**

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

### **Neurological effects**

### **Components:**

#### **Tetflupyrolimet:**

No neurotoxicity observed in animal studies.

### **Further information**

### **Product:**

Remarks : No data available

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### Components:

#### **Tetflupyrolimet:**

Remarks : No data available

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### **Ecotoxicity**

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 22,4 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: no  
Method: OECD Test Guideline 203  
Remarks: Endpoints are for the formulated product itself

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 19,9 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: no  
Method: OECD Test Guideline 203  
Remarks: Endpoints are for the formulated product itself

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,2 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: no  
Method: OECD Test Guideline 203  
Remarks: Endpoints are for the formulated product itself

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 22,4 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: no  
Method: OECD Test Guideline 202  
Remarks: Endpoints are for the formulated product itself

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4,9 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 201  
Remarks: Active ingredient

ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 5,4 mg/l  
Exposure time: 72 h

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Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 201  
Remarks: Active ingredient

Toxicity to soil dwelling organisms : LC50 (*Eisenia andrei* (red worm)): >1000 mg/kg dry weight (d.w.)  
Exposure time: 14 d  
Test substance: yes  
Method: OECD Test Guideline 207  
Remarks: active ingredient

Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 119 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Test substance: yes  
Method: OECD Test Guideline 213  
Remarks: Active ingredient

LD50 (*Apis mellifera* (bees)): > 100 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Test substance: yes  
Method: OECD Test Guideline 214  
Remarks: Active ingredient

### Components:

#### **Tetflupyrolimet:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 5,9 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 203  
Remarks: Active ingredient

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 4,7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 203  
Remarks: Active ingredient

LC50 (*Pimephales promelas* (fathead minnow)): > 5,4 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 203  
Remarks: Active ingredient

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): > 2,6 mg/l



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Exposure time: 96 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 203  
Remarks: Active ingredient

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,85 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 202  
Remarks: Active ingredient

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4,7 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 201  
Remarks: Active ingredient

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4,7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 201  
Remarks: Active ingredient

Toxicity to soil dwelling organisms : LC50 (Eisenia andrei (red worm)): > 1.000 mg/kg  
Exposure time: 14 d  
Test substance: yes  
Method: OECD Test Guideline 207  
Remarks: Active ingredient

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): > 97,8 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Test substance: yes  
Method: OECD Test Guideline 213  
Remarks: Active ingredient

LD50 (Apis mellifera (bees)): > 100 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Test substance: yes  
Method: OECD Test Guideline 214  
Remarks: Active ingredient

### Sodium alkyl naphthalene sulfonate:

Toxicity to fish : LC50 (Zebra fish): > 10 - 100 mg/l  
Exposure time: 96 h

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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  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

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

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic 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

### Persistence and degradability

#### Components:

##### **Tetflupyrolimet:**

Biodegradability : Result: Not readily biodegradable.

##### **Sodium alkyl naphthalene sulfonate:**

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

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

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

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Tetflupyrolimet:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 87  
Concentration: 47 µg/l  
Method: OECD Test Guideline 305  
Remarks: Bioaccumulation is unlikely.  
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 3,34

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

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 6,62  
Exposure time: 56 d  
Method: OECD Test Guideline 305

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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

### Mobility in soil

#### Components:

##### **Tetflupyrolimet:**

Distribution among environmental compartments : Koc: 658 - 1176  
Remarks: Low mobility in soil.

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

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

### Other adverse effects

#### Product:

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

#### Components:

##### **Tetflupyrolimet:**

Results of PBT and vPvB assessment : vP substance (based on half-life in water and water/sediment)

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

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : 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

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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 : It is prohibited to reuse, bury, burn, or sell containers.  
Rinsable containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to ¼ of the container's capacity, close and shake for 30 seconds. Pour the rinse water into the mixing tank, considering this volume of water within the recommended volume for mixing preparation. Perform this procedure three times. Pressure rinsing: Activate the pressure rinsing device for 30 seconds, considering the volume of water used as part of the recommended volume for mixing preparation. In both procedures, punctured the container on its base without damaging the label. In all cases, take the empty containers to collection points indicated by the local empty containers program.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetflupyrolimet)

Class : 9  
Packing group : III  
Labels : 9

##### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Tetflupyrolimet)

Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetflupyrolimet)

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Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### 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.

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## SECTION 15. REGULATORY INFORMATION

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

Substances and chemicals controlled by the Ministry of Justice : Not applicable

List of substances included for special control and subject to supervision by the Ministry of Health and Social Protection : Not applicable

Resolution 2715/2014, which establishes the substances subject to registration of retail sales, based on defined classification criteria. : Not applicable

### 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 on the Canadian DSL nor NDSL.  TETFLUPYROLIMET
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

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IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

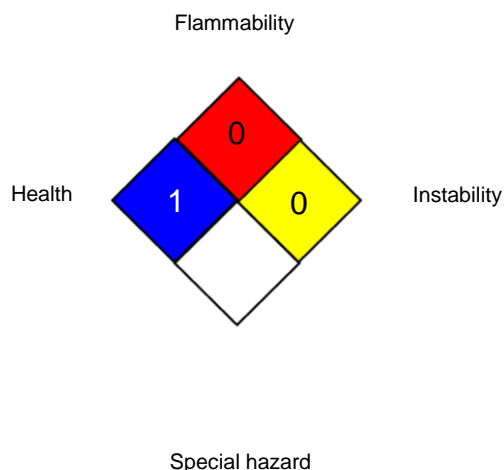
### SECTION 16. OTHER INFORMATION

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#### Further information

##### NFPA:



##### HMIS® IV:

HEALTH	/	1
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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 -

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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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECL - 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; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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