# SAFETY DATA SHEET

# TVE29-R 400 SC herbicide

| Version | Revision Date: | SDS Number: | Date of last issue: - |
|---|---|---|---|
| 1.0 | 03.06.2025 | 50002551 | Date of first issue: 03.06.2025 |

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

Chemical product identification : TVE29-R 400 SC herbicide

Other means of identification : TETFLUPYROLIMET 400 g/L SC

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

**Details of the supplier of the safety data sheet**

Company name of supplier : FMC QUIMICA CHILE LTDA

Supplier's address : AVDA VITACURA 2670,
PISO 15, LAS CONDES,
VITACURA, SANTIAGO, CHILE
+56 2 28204200

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

Emergency and toxicological information number in Chile : Chile: Spills: CITUC: +56 2 2247 3600 (24 hours) Fire: 132 (24 hours)
+56-22-5814934 (CHEMTREC - Chile)
1 703 / 741-5970 (CHEMTREC - International)

Medical Emergency Number : Chile: CITUC: +56 2 2635 3800 (24 hours)

## SECTION 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 2

**Label elements**

Hazard pictograms :

Signal Word : WARNING

Hazard Statements : H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

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

**Other hazards**

None known.

## SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

| Systematic chemical name | Common Name | CAS-No. | Concentration or range (% w/w) | Classification |
|---|---|---|---|---|
| Tetflupyrolimet | Tetflupyrolimet | 2053901-33-8 | >= 30 - < 50 | Short-term (acute) aquatic hazard, Category 1<br>Long-term (chronic) aquatic hazard, Category 1 |
| Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts | Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts | 68425-94-5 | >= 2,5 - < 5 | Serious eye damage/eye irritation, Category 2<br>Long-term (chronic) aquatic hazard, Category 3 |
| 1,2-benzisothiazol-3(2H)-one | 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | >= 0,0025 - < 0,025 | Acute toxicity (Oral), Category 4<br>Skin corrosion/irritation, Category 2<br>Serious eye damage/eye irritation, Category 1<br>Skin sensitization, Category 1<br>Short-term (acute) aquatic hazard, Category 1<br>Long-term (chronic) aquatic hazard, Cate- |

| | | | | |
|---|---|---|---|---|
| | | | | gory 2 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone | 55965-84-9 | >= 0,0003 - < 0,0015 | Acute toxicity (Oral), Category 3<br>Acute toxicity (Inhalation), Category 2<br>Acute toxicity (Dermal), Category 2<br>Skin corrosion/irritation, Sub-category 1C<br>Serious eye damage/eye irritation, Category 1<br>Skin sensitization, Sub-category 1A<br>Short-term (acute) aquatic hazard, Category 1<br>Long-term (chronic) aquatic hazard, Category 1 |

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Inhalation : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
If experiencing any discomfort, immediately remove from exposure. Get medical attention if discomfort does not disappear.

Skin contact : Take off all contaminated clothing immediately.
Wash contaminated clothing before re-use.
Wash off immediately with plenty of water for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.

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.

Ingestion : Do not induce vomiting without medical advice.
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 : None known.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
Avoid inhalation, ingestion and contact with skin and eyes.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet
Do not spread spilled material with high-pressure water streams.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.
Nitrogen oxides (NOx)
Carbon oxides
Fluorinated compounds
Hydrogen cyanide

Related specific hazards : Do not allow run-off from fire fighting to enter drains or water courses.

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.

Standard procedure for chemical fires.

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

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.<br>Prevent product from entering drains.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and material for containment and cleaning up | : | Never return spills in original containers for re-use.<br>Collect as much of the spill as possible with a suitable absorbent material.<br>Pick up and transfer to properly labeled containers.<br>Keep in suitable, closed containers for disposal. |

## SECTION 7. HANDLING AND STORAGE

### Handling

| | | |
|---|---|---|
| Precautions for safe handling | : | Do not breathe vapors/dust.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations. |
| Operational and technical measures | : | Normal measures for preventive fire protection. |
| Contact prevention | : | Avoid contact with skin, eyes and clothing.<br>Do not inhale aerosol.<br>When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday. |

### Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Electrical installations / working materials must comply with the technological safety standards. |
| Technical measures | : | Protect from heat and direct sunlight. |
| Recommended storage temperature | : | < 40 °C |
| Further information on storage stability | : | No decomposition if stored and applied as directed. |

**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

**Control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin protection : Protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state : liquid

Color : off-white

Odor : mild

Odor Threshold : No data available

pH : 5,4

| | | |
|---|---|---|
| | | Method: OCSPP 830.7000<br>(1% solution in water) |
| Melting point/freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | > 100,5 °C<br><br>Method: Regulation (EC) No. 440/2008, Annex, A.9<br>does not flash |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure | : | No data available |
| Vapor density | : | No data available |
| Relative density | : | 1,143<br>Method: Regulation (EC) No. 440/2008, Annex, A.3 |
| Solubility(ies) | | |
| Water solubility | : | dispersible |
| Partition coefficient: n-octanol/water | : | No data available |
| Autoignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | ca. 441,9 mPa.s ( 40 °C)<br>Method: CIPAC MT 192<br>40 rpm<br><br>ca. 546,6 mPa.s ( 40 °C)<br>Method: CIPAC MT 192<br>30 rpm<br><br>ca. 735,8 mPa.s ( 40 °C)<br>Method: CIPAC MT 192<br>20 rpm |

| | | |
|---|---|---|
| | | ca. 504,9 mPa.s ( 20 °C)<br>Method: CIPAC MT 192<br>40 rpm<br><br>ca. 617,2 mPa.s ( 20 °C)<br>Method: CIPAC MT 192<br>30 rpm<br><br>ca. 823,8 mPa.s ( 20 °C)<br>Method: CIPAC MT 192<br>20 rpm |
| Viscosity, kinematic | : | No data available |
| Explosive properties | : | Not explosive<br>Method: Regulation (EC) No. 440/2008, Annex, A.14 |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing.<br>Method: Regulation (EC) No. 440/2008, Annex, A.21 |

**Other information**

| | | |
|---|---|---|
| Surface tension | : | 49,68 mN/m, 24,6 °C, Regulation (EC) No. 440/2008, Annex, A.5 |
| Molecular weight | : | Not applicable |
| Particle size | : | Not applicable |
| Self-ignition | : | 543 °C<br>Method: EEC A.15 |

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

## SECTION 11. TOXICOLOGICAL INFORMATION

| | | |
|---|---|---|
| Information on likely routes of exposure | : | Inhalation<br>Skin contact |

**Acute toxicity**

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

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50(Rat, female): > 5.000 mg/kg<br>Method: OECD Test Guideline 425 |
| Acute inhalation toxicity | : | LC50(Rat, male and female): > 5,12 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity | : | LD50(Rat, male and female): > 5.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity |

**Components:**

**Tetflupyrolimet:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat, female): > 5.000 mg/kg<br>Method: OECD Test Guideline 425<br>Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,08 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity | : | LD50 (Rat, female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The component/mixture is minimally toxic after single contact with skin. |

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

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

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

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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 Oral (Rat, female): 200 mg/kg<br>Method: OECD Test Guideline 423 |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): 0,33 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: Corrosive to the respiratory tract. |
| Acute dermal toxicity | : | LD50 (Rabbit, male): 87 mg/kg |

**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 |
| Remarks | : | Minimal effects that do not meet the threshold for classification. |

**Components:**

**Tetflupyrolimet:**

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

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

| | | |
|---|---|---|
| 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 |

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

| | | |
|---|---|---|
| Method | : | OECD Test Guideline 404 |
| Result | : | Corrosive after 1 to 4 hours of exposure |

**Serious eye damage or eye irritation**

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

**Product:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| Result | : | slight irritation |
| Remarks | : | Minimal effects that do not meet the threshold for classification. |

**Components:**

**Tetflupyrolimet:**

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

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

| | | |
|---|---|---|
| Result | : | 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 |

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

| | | |
|---|---|---|
| Result | : | Irreversible effects on the eye |

**Respiratory or skin sensitization**

**Skin sensitization**

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

**Respiratory sensitization**

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

**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 |
| 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. |

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

| | | |
|---|---|---|
| Test Type | : | Local lymph node assay (LLNA) |
| Species | : | Mouse |
| Result | : | The product is a skin sensitizer, sub-category 1A. |

**Germ cell mutagenicity**

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

**Components:**

**Tetflupyrolimet:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay<br>Test system: Salmonella typhimurium<br>Method: OECD Test Guideline 471<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Test system: Chinese hamster ovary cells<br>Method: OECD Test Guideline 476<br>Result: negative<br><br>Test Type: Chromosome aberration test in vitro<br>Test system: Human lymphocytes<br>Method: OECD Test Guideline 473<br>Result: negative |
| Genotoxicity in vivo | : | Test Type: Micronucleus test<br>Species: mice<br>Method: OECD Test Guideline 474<br>Result: negative |

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

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: gene mutation test<br>Test system: mouse lymphoma cells<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 476 |

Result: negative

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

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

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

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

**Carcinogenicity**

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

**Components:**

**Tetflupyrolimet:**

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| Application Route | : | Oral |
| Exposure time | : | 2 Years |
| NOAEL | : | 197,8 - 240,9 mg/kg bw/day |
| Method | : | OECD Test Guideline 453 |
| Result | : | Not a carcinogenic hazard |

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity**

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

**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
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

**Specific particular organ toxicity - single exposure**

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

**Components:**

**Tetflupyrolimet:**

Remarks : No significant adverse effects were reported

**Specific particular organ toxicity - repeated exposure**

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

**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 |
| NOAEL | : | 116 - 136 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 90 d |
| Method | : | OECD Test Guideline 408 |
| Symptoms | : | Hematologic effects |

| | | |
|---|---|---|
| Species | : | Mouse, male and female |
| NOAEL | : | 1.100 - 1.300 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 90 d |
| Method | : | OECD Test Guideline 408 |

| | | |
|---|---|---|
| Species | : | Dog, male and female |
| NOAEL | : | 100 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 90 d |
| Method | : | OECD Test Guideline 409 |
| 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 |

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

| | | |
|---|---|---|
| Species | : | Dog |
| NOAEL | : | 22 mg/kg |
| Application Route | : | Oral |

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 16,3 - 24,7 mg/kg |
| Application Route | : | Skin contact |

Species : Rat
NOAEL : 2.36 mg/m³
Application Route : Inhalation

**Inhalation hazard**

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

**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

## SECTION 12. ECOLOGICAL INFORMATION

**Toxicity**

**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 : EC50 (Daphnia magna (Water flea)): > 22,4 mg/l

| | | |
|---|---|---|
| aquatic invertebrates | | Exposure time: 48 h<br>Test Type: static test<br>Test substance: no<br>Method: OECD Test Guideline 202<br>Remarks: Endpoints are for the formulated product itself |
| Toxicity to algae/aquatic plants | : | ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4,9 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Test substance: yes<br>Method: OECD Test Guideline 201<br>Remarks: Active ingredient<br><br>ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 5,4 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Test substance: yes<br>Method: OECD Test Guideline 201<br>Remarks: Active ingredient<br><br>NOEC (Lemna gibba G3 (gibbous duckweed)): 0,109 mg/l<br>End point: Growth rate<br>Exposure time: 7 d<br>Test Type: Static renewal test<br>Test substance: yes<br>Method: OECD Test Guideline 221<br>Remarks: Active ingredient<br><br>ErC50 (Lemna gibba G3 (gibbous duckweed)): 0,512 mg/l<br>End point: Growth rate<br>Exposure time: 7 d<br>Test Type: Static renewal test<br>Test substance: yes<br>Method: OECD Test Guideline 221<br>Remarks: Active ingredient |
| Toxicity to soil dwelling organisms | : | LC50: >1000 mg/kg dry weight (d.w.)<br>Exposure time: 14 d<br>Species: Eisenia andrei (red worm)<br>Test substance: yes<br>Method: OECD Test Guideline 207<br>Remarks: active ingredient |
| Toxicity to terrestrial organisms | : | LD50: > 119 µg/bee<br>Exposure time: 48 h<br>End point: Acute oral toxicity<br>Species: Apis mellifera (bees)<br>Test substance: yes<br>Method: OECD Test Guideline 213<br>Remarks: Active ingredient<br><br>LD50: > 100 µg/bee |

Exposure time: 48 h
End point: Acute contact toxicity
Species: Apis mellifera (bees)
Test substance: yes
Method: OECD Test Guideline 214
Remarks: Active ingredient

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

**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
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: 96 h
Test Type: static test

Test substance: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: Active ingredient

EC50 ( Lemna gibba G3 (gibbous duckweed)): 0,57 mg/l
End point: Frond
Exposure time: 7 d
Test Type: static test
Test substance: yes
Method: OPPTS 850.4400
GLP: yes
Remarks: Active ingredient

NOEC ( Lemna gibba G3 (gibbous duckweed)): 0,090 mg/l
End point: Frond
Exposure time: 7 d
Test Type: static test
Test substance: yes
Method: OPPTS 850.4400
GLP: yes
Remarks: Active ingredient

ErC50 ( Myriophyllum spicatum): 19,2 µg/l
End point: Total shoot length
Exposure time: 14 d
Test substance: yes
Method: OECD Test Guideline 239
GLP: yes
Remarks: Active ingredient

NOEC ( Myriophyllum spicatum): 0,836 µg/l
End point: Total shoot length
Exposure time: 14 d
Test substance: yes
Method: OECD Test Guideline 239
GLP: yes
Remarks: Active ingredient

Toxicity to fish (Chronic toxicity) : NOEC: 0,75 mg/l
Exposure time: 33 d
Species: Pimephales promelas (fathead minnow)
Test Type: Early-life Stage
Method: OECD Test Guideline 210

NOEC: 2,8 mg/l
Exposure time: 34 d
Species: Cyprinodon variegatus (sheepshead minnow)
Test Type: Early Life-Stage
Method: US EPA Test Guideline OPPTS 850.1400

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,13 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Test Type: semi-static test
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 100

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

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

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

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

**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
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

**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

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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l
Exposure time: 96 h
GLP: yes

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,16 mg/l<br>Exposure time: 48 h<br><br>NOEC (Daphnia magna (Water flea)): 0,1 mg/l<br>Exposure time: 21 d<br><br>EC50 (Daphnia magna (Water flea)): 0,18 mg/l<br>Exposure time: 21 d |
| Toxicity to algae/aquatic plants | : | NOEC ( Skeletonema costatum (marine diatom)): 0,00049 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 201<br><br>NOEC ( Skeletonema costatum (marine diatom)): 0,019 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 ( Skeletonema costatum (marine diatom)): 0,037 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity) | : | 100 |
| Toxicity to microorganisms | : | NOEC (activated sludge): 0,91 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br><br>EC50 (activated sludge): 4,5 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209 |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0,02 mg/l<br>Exposure time: 35 d<br>Species: Danio rerio (zebra fish)<br>Method: OECD Test Guideline 210<br>GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,1 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br><br>Chronic Toxicity Value: 0,18 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea) |
| M-Factor (Chronic aquatic toxicity) | : | 100 |

**Persistence and degradability**

**Components:**

**Tetflupyrolimet:**

Biodegradability : Result: Not readily biodegradable.

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

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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**Tetflupyrolimet:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Concentration: 47 µg/l
Bioconcentration factor (BCF): 87
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)
Exposure time: 56 d
Bioconcentration factor (BCF): 6,62
Method: OECD Test Guideline 305
Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)
pH: 7

log Pow: 0,99 (20 °C)

pH: 5

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Bioaccumulation : Exposure time: 28 d
Bioconcentration factor (BCF): < 54
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : Pow: 0,75

**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.
Very toxic to aquatic life.
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.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Waste treatment 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 chemi-

cal or used container.
Send to a licensed waste management company.

Contaminated packaging, and contaminated material : 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.

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 |
| Environmentally hazardous | : | yes |

**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) |
| 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.

**Domestic regulation**

**NCh382**

| | | |
|---|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetflupyrolimet) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| Environmentally hazardous | : | yes |

**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.

## SECTION 15. REGULATORY INFORMATION

**National Regulations**

| | | |
|---|---|---|
| Chile. Decree 190. Carcinogenic Substances, Hazardous Waste Management. | : | Not applicable |
| Decree 1358 - Establishment of rules governing the control measures of precursors and essential chemicals. | : | sodium hydroxide |
| Resolution 408/16 Exempt, Approving List of Health Hazardous Substances | : | Included in list of Article 3, item a), Classification according to NCh382 |

**Other regulations**

Decree 43/2015, Approving Regulation on Storage of Hazardous Substances
NCh 2245:2021 Safety data sheet for chemical products - Content and order of sections
NCh 2190:2019 Land transport of dangerous goods - Hazard identification marks
NCh 382:2021 Dangerous Goods – Classification
Decree 57 of 2019, Regulation on Classification, Labeling, and Notification of Hazardous Chemicals and Mixtures
D.S. 148/03 Sanitary Regulation on hazardous wastes handling
D.S. 298/94 Regulation on transport of hazardous cargo on streets and roads
D.S. 594/99 Regulation on sanitary and environmental basic conditions at work places

Exempt Resolution 15 of 2023 approving the List of Hazardous Substances Subject to Import Process

**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.<br><br>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 |
| IECSC | : | Not in compliance with the inventory |
| NZIoC | : | Not in compliance with the inventory |
| TECI | : | Not in compliance with the inventory |

The receiver should verify the possible existence of legal regulations applicable to chemical.

## SECTION 16. OTHER INFORMATION

| | | |
|---|---|---|
| Revision Date | : | 03.06.2025 |
| Date format | : | dd.mm.yyyy |

**Full text of H-Statements**

**Abbreviations and acronyms**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Short-term (acute) aquatic hazard |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Serious eye damage/eye irritation | : | Serious eye damage/eye irritation |
| Skin corrosion/irritation | : | Skin corrosion/irritation |
| Skin Sens. | : | Skin sensitization |

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 - 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; 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; WHMIS - Workplace Hazardous Materials Information System

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