# SAFETY DATA SHEET

# GroVentive®

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**1.1 Identifiers**

| | |
|---|---|
| Product name: | **GroVentive®** |
| Other Name(s): | Suspension concentrate containing 100 g/L spirotetramat |

**1.2 Recommended use of the chemical and restrictions on use**

| | |
|---|---|
| Product Use: | Insecticide for use on certain fruit and vegetable crops |

**1.3 Supplier contact details:**

| | |
|---|---|
| Company name: | Sipcam New Zealand Ltd |
| Address: | 20 Jean Batten Drive Mt Maunganui, 3116 |
| Telephone: | 0800 220 002 |
| Email: | info@sipcam.co.nz |
| **Emergency telephone number (24 hours)** | 0800 CHEMCALL (0800 243 622) |

## SECTION 2: HAZARD IDENTIFICATION

**2.1 Classification of the substance**

**Skin sensitisation Category 1; Reproductive toxicity Category 2; Hazardous to the aquatic environment chronic Category 3**

**2.2 Label elements:**

**Pictograms:**



**Signal Word: WARNING**

**Hazard statements:**

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017**

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

Do not apply substance to plants if-

(i) Bees are foraging; or
(ii) The plants are in flower or part flower and are likely to be visited by non-target invertebrate pollinators (including bees).

**Precautionary statements:**

*Prevention*

| | |
|---|---|
| P103 | Read label before use. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing mist/spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/clothing. |

*Response*

| | |
|---|---|
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |

*Storage*

| | |
|---|---|
| P405 | Store locked up. |

*Disposal*

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with local regulations. |

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS | Proportion % w/w |
|---|---|---|
| Spirotetramat | 203313-25-1 | 9.0 -9.5* |
| Glycerine | 56-81-5 | >1 <10 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | <0.5 |
| Other ingredients | Trade secret | balance |

*equivalent to 100 g/L

This is a commercial product whose exact ratio of components may vary slightly.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**General Information:**

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have label or Safety Data Sheet at hand.

**Ingestion:** If swallowed, rinse mouth with water. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell.

**Skin Contact:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation or rash occurs.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

**Inhalation:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell.

### 4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

**4.3 Medical attention and special treatment**

Treat symptomatically. No specific antidote.

## SECTION 5: FIRE FIGHTING MEASURES

**5.1 Suitable extinguishing media**

Use water spray or fog, foam, $CO_2$ or dry chemical as appropriate for surrounding materials, contain extinguishing media to prevent runoff into drains, sewers, waterways.

**5.2 Specific hazards arising from the chemical**

Fire decomposition products may be toxic/harmful and/or irritating if inhaled. The following compounds mat be released; hydrogen cyanide, carbon oxides, nitrogen oxides.

Evacuate people to safe area upwind of fire.

**5.3 Special protective equipment and precautions for fire fighters**

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Have this SDS available. In the event of a spill, wear appropriate protective clothing and hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use.

**6.2 Environmental precautions**

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, alert the local water authority.

**6.3 Methods and materials for containment and cleaning up**

Contain spilled material. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Read the label before use.

Do not apply into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

When applying product avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Do not eat, drink or smoke when using.

Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

**7.2 Conditions for safe storage**

Store locked up in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

Storage of 1000L or more of this product requires an emergency response plan, secondary containment and signage.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters – exposure standards, biological monitoring

| Ingredient | TWA (mg/m$^3$) | STEL (mg/m$^3$) |
|---|---|---|
| Glycerine (mist) | 10 | |

### 8.2 Engineering controls

Use in well-ventilated area or outdoors.

### 8.3 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

**Eye/Face Protection:** Wear chemical splash goggles if eye contact is possible.

**Skin Protection:** Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

**Respirator:** Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for particulates.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance | Off-white to beige liquid |
| Odour | Characteristic |
| Odour threshold | Not known |
| pH | 4.0 – 5.5 (neat) |
| Melting/Freezing Point | No data available |
| Boiling Point /Range | No data available |
| Flash point | Non flammable |
| Flammability (solid, gas) | Not applicable |
| Vapour Pressure | No data available |
| Vapour density | No data available |
| Specific gravity/bulk density | ~ 1.08 g/cc |
| Solubility | Forms suspension in water |
| Partition Co-efficient n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | Not applicable |

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity**

This product is unlikely to react or decompose under normal storage conditions.

**10.2 Chemical stability**

Stable under normal temperatures and pressure for storage and use.

**10.3 Conditions to Avoid**

Avoid storage in direct sunlight or exposure to heat or freezing.

**10.4 Incompatible materials and possible hazardous reactions**

Acids, alkalis.

**10.5 Hazardous decomposition products**

**Fire Decomposition:** Smoke, carbon and nitrogen oxides, hydrogen cyanide, and other unspecified compounds.

**10.6 Polymerisation**

Not known to occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Health hazard information**

The product is classified for health hazards according to an assessment of information on product.

**11.2 Toxicological information**

| | |
|---|---|
| Acute toxicity: | Not classified as being harmful if ingested, in contact with skin or inhaled. |
| Aspiration hazard: | Product contains no components with aspiration hazard. |
| Respiratory irritation: | Not expected to be irritating. |
| Skin corrosion/irritation | Not classified as a skin irritant. |
| Serious eye damage/irritation | Not classified as an eye irritant. |
| Respiratory or skin sensitisation | Spirotetramat is identified as a contact sensitiser. |
| Germ cell mutagenicity: | No ingredients in product identified as presumed or suspected mutagens. |
| Carcinogenicity | No ingredients in product identified as presumed or suspected carcinogens. |
| Reproductive toxicity | Spirotetramat is identified as suspected of damaging fertility at high (toxic) doses or the unborn child (delayed foetal growth |
| Specific target organ toxicity – single/repeated exposure | Not classified for adverse effects to organs or systems. |
| Narcotic effects | Product contains no ingredient identified as causing narcotic effects. |

**11.3 Toxicological data:**

| | |
|---|---|
| Spirotetramat | Oral, $LD_{50}$ (rat) >2000 mg/kg bw<br>Dermal, $LD_{50}$ (rat) >2000 mg/kg bw<br>Inhalation, $LC_{50}$ 4 hr (rat) >2.8 mg/L air |

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Ecotoxicity**

This product is classified as being harmful to aquatic life with long lasting effects.

**12.2 Environmental Fate**

**Breakdown in soil and groundwater:** $DT_{50}$ >0.9 day (typical)

**Bioaccumulation:** Low bioaccumulation potential.

**Partition coefficient (octanol/water):** Spirotetramat $K_{OC}$ 289

**Soil mobility:** Low

**12.3 Ecotoxicity data:**

| | |
|---|---|
| Spirotetramat | Fish: *Cyprindon variegatus* $LC_{50}$ (96 hr) 1.96 mg/L<br>Rainbow trout $LC_{50}$ (96 hr) 22.3 mg/L<br>Crustacea: *Daphnia magna* $EC_{50}$ (48 h) > 42.7 mg/L<br>Alga: *Pseudokirchneriella subcapitata* $LC_{50}$ 72hr growth 0.96 mg/L<br>Aquatic plant: *Lemna gibba* $EC_{50}$ 7 d biomass 4.47 mg/L |

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Product Disposal**

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill in accordance with local regulations.

**13.2 Container Disposal**

Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

## SECTION 14: TRANSPORT INFORMATION

**Road and Rail Transport:**

Classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

**Marine Transport (IMO/IMDG):**

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**Air Transport (ICAO/IATA):**

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

| | |
|---|---|
| **UN Number:** | 3082 |
| **UN Proper Shipping Name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS SPIROTETRAMAT 10%) |
| **Transport hazard class(es)** | 9 |
| **Packing Group:** | III |
| **HAZCHEM:** | 2Z |
| **Special Precautions for User**: | - |
| **IMDG Marine pollutant:** | YES |
| **Transport in Bulk:** | - |

## SECTION 15: REGULATORY INFORMATION

**15.1 HSNO Act 1996**

Hazardous substance according to Hazardous Substances (Classification) Notice 2020.

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|---|---|
| **HSNO approval number:** | HSR100545. Refer to controls on www.epa.govt.nz for complete wording for variation Controls. |

| | |
|---|---|
| **Tolerable exposure limits:** | No TEL set |
| **Environmental exposure limits:** | No EEL set |
| **International agreements:** | Not applicable |
| **HSW (HS) Regulations 2017** | Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz) |
| **Certified Handler certificate:** | Not applicable |
| **Location Certificate:** | Not applicable |
| **Signage trigger quantity (Schedule 3):** | 1000 L |
| **Emergency Response Plan trigger quantity (Schedule 5):** | 1000 L |
| **Secondary Containment trigger quantity (Schedule 16):** | 1000 L |
| **Tracking (Schedule 26):** | Not applicable |
| **Record Keeping:** | A record of application records is required in certain circumstances. Refer to section 48 of Hazardous Substances (Hazardous Property Controls) Notice 2017 |
| **Workplace exposure limits:** | Glycerine (mist) 10 TWA (mg/m3) |
| **ACVM Act 1997** | Registration number: P9524 GroVentive®. Refer to www.foodsafety.govt.nz for registration conditions. |

## SECTION 16: OTHER INFORMATION

**16.1 Date of preparation or last revision of SDS**

| | |
|---|---|
| **SDS issued** | 26 August 2026 |
| **SDS supersedes** | 9th July 2023 |
| **Reason issued** | Changed to Sipcam |

**16.2 ABREVIATIONS**

| | |
|---|---|
| **ADI** | Acceptable Daily Intakes |
| **CAS number** | Chemical Abstracts Service Registry Number |
| **CCID** | Chemical Classification Identification Database |
| **EPA** | Environmental Protection Authority |
| **$ErC_{50}$** | Half maximal Effective Concentration |
| **GHS** | Globally Harmonized System of Classification and Labelling of Chemicals |
| **Hazchem Code** | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| **HSNO** | Hazardous Substances and New Organisms |
| **HS** | Health and Safety |
| **HSR** | Hazardous Substances Register |
| **IARC** | International Agency for Research on Cancer |
| **$LC_{50}$** | Median Lethal Concentration |
| **$LD_{50}$** | Median Lethal Dose |
| **SDS** | Safety Data Sheets |
| **NOAEL** | No Observable Adverse Effect Level |
| **NOEL** | No Observable Effect Level |

| | |
|---|---|
| **NOS** | Not otherwise specified |
| **STEL** | Short Term Exposure Limit |
| **SWA** | Safety Work Australia |
| **TWA** | Time-Weighted Average (WES-TWA). The average airborne concentration of a substance calculated over an eight-hour working day. |
| **UN Number** | United Nations Number |

**16.3 REFERENCES**

EPA CCID and Approved Substance databases

PPDB- Pesticides Properties DataBase

**16.4 OTHER**

GroVentive® is a trademark of Sipcam New Zealand Ltd

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End of Safety Data Sheet