



SAFETY DATA SHEET

Talent™

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **Talent™**
 Other Name(s): Suspension concentrate containing methoxyfenoxide 240 g/L

1.2 Recommended use of the chemical and restrictions on use

Product Use: Insecticide for control of codling moth

1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited
 Address: 20 Jean Batten Drive Mt Maunganui, 3116
 Telephone: 0800 220 002
 Email: info@grosafe.co.nz

Emergency telephone number 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996
 HSNO Substance Approval: HSR100924

Hazard Classifications: Hazardous to the aquatic environment chronic Category 3

2.2 Label elements:

Pictograms:

Not required

Signal Word: Not required

Hazard statements:

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.

Precautionary statements:

Prevention

P103 Read label before use.

Response

Storage

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Disposal

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



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Proportion % w/w
Methoxyfenozide	161050-58-4	~21
Other ingredients*	Trade secret	balance

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

*Do not affect the hazardous classifications of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice call the National Poisons Centre, telephone 0800 POISON [0800 764 766]. Have product label or container at hand.

IF SWALLOWED: Rinse mouth. Get medical advice/ attention if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Get medical advice/attention if irritation persists.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if irritation persists.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention 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.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray or fog or foam 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.

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, eye and skin 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, warn the local water authority.

6.3 Methods and materials for containment and cleaning up



Contain spilled material. For small liquid spills, use inert absorbent material, such as sand or 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 handle until all safety precautions have been read and understood.

Do not apply directly 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.

Apply good hygiene practices. Avoid contact with skin and eyes. Avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection. Do not eat, drink or smoke when using this product. Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

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 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 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)
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No biological limits applicable.

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	White liquid suspension
Odour	Non-specific, mild
Odour threshold	Not known
pH	6.0 – 9.0 (typical 7.0)
Melting/Freezing Point	No data available
Boiling Point /Range	>100 °C
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour Pressure	Methoxyfenoxide 1.33 mPa x 10 ⁻⁰² @ 20°C
Vapour density	No data available
Specific gravity	ca 1.05 g/cc
Solubility	Disperses in water
Partition Co-efficient n-octanol/water	Methoxyfenoxide Log P = 3.72
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Particle characteristics	No data available

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

Contact with oxidising agents, strong acids, alkalis.

10.4 Incompatible materials and possible hazardous reactions

Incompatible with explosives, oxidising agents, organic peroxides. Hazardous decomposition products formed at high temperatures.

10.5 Hazardous decomposition products

Fire Decomposition: Carbon dioxide, carbon monoxide, smoke 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:	Product is not classified.
Aspiration hazard:	Product is not classified with aspiration hazard.



Respiratory irritation:	Product is not classified as irritant.
Skin corrosion/irritation	Product is not classified as irritant.
Serious eye damage/irritation	Product is not classified as irritant.
Respiratory or skin sensitisation	Product is not classified as sensitizer.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity – single/repeated exposure	Not classified. However, methoxyfenozide is identified as having potential endocrine effects on thyroid and adrenal glands and as possible liver toxicant.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

11.3 Toxicological data:

Product	Not available
Methoxyfenozide	Oral, mouse LD ₅₀ >5000 mg/kg b.w Dermal, rat LD ₅₀ >5000 mg/kg b.w. Inhalation, rat LC ₅₀ (4 hr) >4.3 mg/L

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: Not rapidly biodegradable. DT₅₀>30 days.

Bioaccumulation: Not expected to bioaccumulative. BCF = 11.

Partition coefficient (octanol/water): Not available.

Soil mobility: Low

12.3 Ecotoxicity data:

Methoxyfenozide	Fish; Rainbow trout LC ₅₀ (96 hr) >4.2 mg/L Aquatic vertebrate; <i>Daphnia magna</i> EC ₅₀ (48 hr) 3.7 mg/L Algae; <i>Pseudokirchneriella subcapitata</i> EC ₅₀ growth (72hr) >3.4mg/L
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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 Agrecovery® chemical recovery service or at an approved landfill in accordance with local regulations.

13.2 Container Disposal

Refer to product label. Do not use packaging for storage of any other products. Triple rinse empty container and add rinsate to spray tank. Submit container to Agrecovery® for recycling, or crush and send to approved landfill.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Not classified as Dangerous Good according to NZS5433 Transport of Dangerous Goods on Land

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

Not Classified as Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not Classified as Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number: Non- regulated

UN Proper Shipping Name:

Transport hazard class(es)

Packing Group:

HAZCHEM:

Special Precautions for User:

IMDG Marine pollutant:

Transport in Bulk: -

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

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

Approved substance number: HSR100924

Hazard classifications: Hazardous to the aquatic environment chronic Category 3.

Controls: Refer to control on www.epa.govt.nz for complete wording for variation Controls.

77A Apply only with ground-based methods.

Additional information: Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

Certified handler: Not applicable

Tracking: Not applicable

Qualifications: Not applicable

International Agreements: 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

Record Keeping: Not applicable

Environmental exposure limits: An EELwater has been set for methoxyfenozide. The EEL value is 4 µg/L.

Tolerable exposure limits: None set

15.2 ACVM Act 1997

Registration number: P9060 Talent™

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	17 November 2023
SDS supersedes	29 th June 2020
Reason issued	Update to GHS.

16.2 ABBREVIATIONS

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	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
LC₅₀	Median Lethal Concentration
LD₅₀	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
UN Number	United Nations Number

16.3 REFERENCES

EPA CCID and Approved Substance databases
 PPDB- Pesticides Properties DataBase

16.4 OTHER

Talent™ is a trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet