

## NoMate Quattro Spirals

**HAZARDOUS, NON-DANGEROUS GOODS**

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

<b>Product name:</b>	NoMate Quattro Spiral
<b>Recommended use:</b>	Pheromone communication disruptant for control of three NZ leafrollers and codling moth
<b>Supplier:</b>	Grochem (AgriNova New Zealand Limited)
<b>Company No.:</b>	9429036821501
<b>Street Address:</b>	15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Email:</b>	grochem@grochem.com
<b>Emergency telephone:</b>	New Zealand 0800 CHEMCALL - 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of EPA New Zealand GHS 7.

**EPA Group Standard:** HSR100628 - Straight chained lepidopteran Sex Pheromone Group Standard 2020



**Signal Word:** Danger

**Hazard Classification:** Serious Eye Damage/Irritation - Category 2  
Sensitisation - Respiratory - Category 1  
Long Term Hazards to the Aquatic Environment - Category 4

**Hazard Statement:** H319 - Causes serious eye irritation.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H413 - May cause long lasting harmful effects to aquatic life.

**Prevention Precautionary Statements:** P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.  
P264 - Wash hands, face and all exposed skin thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing including eye/face protection.  
P285 - In case of inadequate ventilation wear respiratory protection.

<b>Response Precautionary Statements:</b>	P101 - If medical advice is needed, have product container or label at hand. P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
<b>Storage Precautionary Statement:</b>	Not allocated
<b>Disposal Precautionary Statement:</b>	P501 - Dispose of contents/container in accordance with local, regional, national and international regulations.
<b>DANGEROUS GOOD CLASSIFICATION:</b>	Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
8,10-Dodecadien-1-ol, (E,E)-	33956-49-9	5.6 %
Ingredients determined to be Non-Hazardous		Balance

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

<b>Inhalation:</b>	Effects may be delayed. Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.
<b>Skin Contact:</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
<b>Eye contact:</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.
<b>Ingestion:</b>	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
<b>PPE for First Aiders:</b>	Wear overalls, gloves, safety glasses. Available information suggests that gloves made from natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Notes to physician:</b>	Treat symptomatically. Effects may be delayed.

### 5. FIRE FIGHTING MEASURES

<b>Hazchem Code:</b>	Not applicable.
<b>Suitable extinguishing media:</b>	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
<b>Specific hazards:</b>	Non-combustible material.
<b>Fire fighting further advice:</b>	Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

<b>SMALL SPILLS:</b>	Contain and collect.
<b>LARGE SPILLS:</b>	Contain and collect. Prevent entry into drains, sewers or waterways
<b>Dangerous Goods - Initial Emergency Response Guide No:</b>	Not applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust.
<b>Storage:</b>	Keep chilled

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National occupational exposure limits:</b>	No value assigned for this specific material by WorkSafe New Zealand.
<b>Biological Limit Values:</b>	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Measures:</b>	Natural ventilation should be adequate under normal use conditions.
<b>Personal Protection Equipment:</b>	OVERALLS, GLOVES, SAFETY GLASSES. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.  Wear overalls, gloves, safety glasses. Available information suggests that gloves made from natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Hygiene measures:</b>	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Solid	<b>Odour:</b>	Mild, sweet
<b>Colour:</b>	Blue	<b>Solubility:</b>	Insoluble

(Typical values only - consult specification sheet) N Av = Not available, N App = Not applicable

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable at ambient temperatures
<b>Conditions to avoid:</b>	Acids, peroxides and other oxidising agents
<b>Incompatible materials:</b>	None known
<b>Hazardous decomposition products:</b>	CO, CO <sub>2</sub> and water
<b>Hazardous reactions:</b>	None known

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### ACUTE EFFECTS

Inhalation:	This product contains a straight chain lepidopteran pheromone, a class of pheromones with no expected risks to human health or non-target organisms. A respiratory sensitizer. Can cause possible allergic reactions.
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Skin contact:	Contact with skin may result in irritation.
Ingestion:	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	An eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

**ACUTE TOXICITY**

Inhalation:	This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): LC50 > 5.0 mg/L for dust.
Skin contact:	This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw
Ingestion:	This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw
Corrosion/Irritancy:	Eye: this material has been classified as a Category 2 Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.
Sensitisation:	Inhalation: this material has been classified as a Category 1 Hazard (respiratory sensitiser). Skin: this material has been classified as not a skin sensitiser.
Aspiration hazard:	This material has been classified as not an aspiration hazard.
Specific target organ toxicity (single exposure):	This material has been classified as not a specific hazard to target organs by a single exposure.

**CHRONIC TOXICITY**

Mutagenicity:	This material has been classified as non-hazardous.
Carcinogenicity:	This material has been classified as non-hazardous.
Reproductive toxicity (including via lactation):	This material has been classified as non-hazardous.
Specific target organ toxicity (repeat exposure):	This material has been classified as non-hazardous

**12. ECOLOGICAL INFORMATION**

Avoid contaminating waterways.

**Acute aquatic hazard:** Values are for pure substance

**NoMate Quattro Spiral 48hr EL50 (Daphnia magna): 0.3 mg/L**

**NoMate Quattro Spiral 72hr EC50 (algae): 0.074 mg/L**

**NoMate Quattro Spiral 96hr IC50 (rainbow trout): > 120 mg/L**

**Chronic aquatic hazard: This material has been classified as a Category Chronic 4 Hazard.**

**Ecotoxicity in the soil environment: This material has been classified as non-hazardous.**

**Ecotoxicity to terrestrial vertebrates: This material has been classified as non-hazardous.**

**Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.**

**Ecotoxicity: No information available.**

**Persistence and degradability: The product is readily biodegradable. Easily decomposes to carbon monoxide, carbon dioxide and water**

**Bioaccumulative potential: No information available.**

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

Product: Use as directed on the label or dispose of at an approved disposal facility. Container: Triple rinse and deliver to an Agrecovery collection depot.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

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

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**EPA Group Standard:** HSR100628 - Straight chained lepidopteran Sex Pheromone Group Standard 2020

**This material is not subject to the following international agreements:**

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

## 16. OTHER INFORMATION

**Reason for issue:** 5 Yearly Revision

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Grochem, it is the user's responsibility to determine conditions of safe use of the product.