



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **SPHINX 500 SC Fungicide**
Chemical Name of Active Ing: Dimethomorph (E,Z)-4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl] morpholine
Product Use: Fungicide
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd
Address: Level 1/93 Bolt Road
Tahunanui, Nelson
Telephone: +64 3 543 8275
Fax Number: +64 3 543 8274

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 28 May 2019

Section 2. Hazards Identification

This substance is hazardous according to the *Hazardous Substances (Classification) Notice 2017*

EPA Approval No: HSR007636

Pictograms



Chronic



Ecotoxic

Signal Word: **Warning**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|--|-------------------|
| 6.9B | H373 | May cause damage to organs through prolonged or repeated exposure. | STOT RE 2 |
| 9.1B | H411 | Toxic to aquatic life with long lasting effects. | Aquatic Chronic 2 |

| Prevention Code | Prevention Statement |
|-----------------|-----------------------------------|
| P103 | Read label before use. |
| P260 | Do not breathe fumes. |
| P273 | Avoid release to the environment. |

| Response Code | Response Statement |
|---------------|--|
| P314 | Get medical advice/attention if you feel unwell. |
| P391 | Collect spillage. |

| | |
|---------------------|--------------------------|
| Storage Code | Storage Statement |
| None allocated | |

| | |
|----------------------|---|
| Disposal Code | Disposal Statement |
| P501 | Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container. |

Section 3. Composition / Information on Ingredients

| Ingredients | Wt % | CAS NUMBER. |
|---------------------------------|--------|-------------|
| Dimethomorph | 500g/L | 110488-70-5 |
| Other non-hazardous ingredients | To bal | - |

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed Do not induce vomiting. Wash out mouth with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable.

Inhalation: Not applicable.

Skin: Not applicable.

Eye: Not applicable.

Chronic: May cause damage to organs through repeated or prolonged exposure.

Section 5. Fire Fighting Measures

| | |
|---|--|
| Hazard Type | Non Flammable / Not combustible. |
| Hazards from products | Thermal decomposition may generate: carbon dioxide, carbon monoxide, nitrogen oxides, and chlorides. |
| Suitable Extinguishing media | Water fog, foam. dry chemical. |
| Precautions for firefighters and special protective clothing | Wear proper protective equipment. Use self-contained breathing apparatus when in close proximity to fire. Fight fires from protected location. Dike fire control water for later disposal. |
| HAZCHEM CODE | 3Z |

Section 6. Accidental Release Measures

Wear appropriate protective clothing. (see section 8).

Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

Methods and material for containment and cleaning up

In the event of minor spillage. Absorb remainder in sand or other inert material. Use appropriate container to avoid environmental contamination. In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal. Dispose of in an authorised waste collecting point.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not inhale spray mist.
- Avoid release to the environment.
- Do not smoke, drink or eat while using.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.
- As a Class 9 Substance with Ecotoxicity Classifications, storage of Sphinx Fungicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.
- Keep out of reach of children.
- Packaging: Fluorinated or Co extruded polyethylene drums.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA | | STEL | |
|-----------|-----|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

No special ventilation requirements are normally necessary for this product.

Personal Protection Equipment



| | |
|------------------|---|
| Eyes | Safety goggles or Chemical goggles. |
| Hands and | Wear suitable protective clothing. Chemical resistant boots. Chemical |

| | |
|--------------------|---|
| Skin | resistant gloves. (nitrile or similar). |
| Respiratory | During spraying wear suitable respiratory equipment. |
| General | When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use. |

Section 9 Physical and Chemical Properties

| | |
|---|------------------|
| Appearance | Off-white liquid |
| Odour | No odour |
| Odour Threshold | Not applicable |
| Coefficient pH | Not applicable |
| Boiling Point | >250°C |
| Melting /Freezing Point | Not applicable |
| Flash Point | Not applicable |
| Flammability | Not flammable |
| Upper and Lower Exposure Limits | Not applicable |
| Vapour Pressure | Not applicable |
| Density | 1.10-1.15 |
| Solubility in water | Dispersible |
| Coeff Oil/water distribution: | Not applicable |
| Auto-ignition Temperature | Not applicable |
| Kinematic viscosity mm²/s 40 °C | Not applicable |
| Particle Characteristics | Not applicable |
| Volatiles | Not applicable |

Section 10. Stability and Reactivity

| | |
|---|--|
| Stability of Substance | This product is stable under normal conditions. |
| Reactivity | None known. |
| Conditions to Avoid | Protect from (sun) light, open flame and sources of heat. |
| Incompatible Materials | Acids, strong oxidizing agents. |
| Hazardous Decomposition Products | Thermal decomposition may generate: carbon dioxide, carbon monoxide, nitrogen oxides, and chlorides. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|---|
| Swallowed | Not applicable LD50 (rat) >2,000 mg/kg |
| Dermal | Not applicable LD50 (rat) >2,000 mg/kg |
| Inhalation | Not applicable LC50 (rat) >2 mg/L/4h maximum concentration attainable, not adequate for classifications |
| Skin | Not applicable |
| Eye | Not applicable |

Chronic Effects:

| | |
|-------------------------------|-----------------|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |

STOT/RE

May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life.

Ecotoxicity:

96 H-LC50 – Rainbow trout [mg/l]: 20.5
 96 H-LC50 – Carp [mg/l]: 35.5
 48 H-EC50 – Daphnia magna [mg/l]: 68.2
 96 H-ErC50 Algae [mg/l]: 38.7
 96 H-EbC50 Algae [mg/l]: 17.3
 Bees LD50 [µg/Bee]: Contact: 100
 Oral > 97.6
 LD50 Birds [mg/kg]: Bobwhite quail >2,000

| | |
|--------------------------------------|----------------------------------|
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |
| Precautions | Do not allow to enter waterways. |

Section 13. Disposal Considerations

Disposal Method: Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.

Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information**This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012****Road and Rail Transport**

UN No: 3082
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Air Transport

UN No: 3082
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Marine Transport

UN No: 3082
 Class-primary 9
 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S
Marine Pollutant No

Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR007636
HSNO Classification: 6.9B,9.1B

Refer to EPA website www.epa.govt.nz for controls document - HSR007636

| HSW (HS) Regulations 2017 | Trigger Quantity |
|--|--|
| Signage Trigger Quantities (Schedule 3) | 1000L (9.1B) |
| Emergency Response Plan (Schedule 5) | 1000L (9.1B) |
| Secondary Containment (Schedule 5) | 1000L (9.1B) |
| Tracking (Schedule 26) | Not required |
| HSW(Hazardous substance) Regulations Part 4 Certified Handlers and supervision and training of workers | HSW Reg 4.5 – 4.6 Information, instruction, training and supervision. |
| HSNO Additional Controls (Restrictions of use) | |
| 77A | The substance must not be applied onto or into water. |
| Hazardous Property Controls Notice 2017 | |
| HPC Notice Part 4 Clause 47 | Equipment for class 9 substances must be appropriate |
| HPC Notice Part 4 Clause 48 | Records of application of class 9 pesticides and plant growth regulators |
| HPC Notice Part 3 | Hazardous substances in a place other than a workplace |
| HPC Notice Part 4 Subpart A | Site and storage controls for class 9 substances |
| ACVM Act and Regulations | |
| ACVM Approval No See www.foodsafety.govt.nz for registration controls | P7905 |

Section 16 Other Information

Glossary

| | |
|------|---|
| EC50 | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| LC50 | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD50 | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the ADAMA, if further information is required.

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