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| 1. Identification of the Substance/Mixture and Supplier. | | | | | | | | | | |
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| Product name: | Oberon | | | | | | | | | |
| Other product names: | Oberon 240SC | | | | | | | | | |
| Application: | Contact acaricide/insecticide for control of mites in cucumbers and ornamentals. | | | | | | | | | |
| ERMA approval: | Transferred under scheduled toxic substances. | | | | | | | | | |
| Company: | Bayer New Zealand Limited, 3 Argus Place, Glenfield, Auckland, New Zealand. | | | | | | | | | |
| Telephone: | 0800 428 246 | | | | | | | | | |
| Facsimile: | 09 441 8645 | | | | | | | | | |
| Emergency telephone: | 0800 734 607 Orica SH&E Shared services (24hr) | | | | | | | | | |
| 2. Hazards Identification. | | | | | | | | | | |
| Hazard classification: | Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. | | | | | | | | | |
| Classification and type: | HSNO Class* 6.5B, 6.9B, 9.1A Harmful – may cause sensitisation from prolonged skin contact. Harmful – may cause organ damage from repeated oral exposure at high doses. Very toxic to aquatic organisms- must not be applied directly onto or into water. | | | | | | | | | |
| Risk & Safety Phrases: | R43, R48, R50 | | | | | | | | | |
| 3. Composition/Information on Ingredients. | | | | | | | | | | |
| Chemical identity of pure substance: | 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione. | | | | | | | | | |
| Chemical identity of ingredients | <p>Mixture:</p> <table border="1"> <thead> <tr> <th>Ingredient</th> <th>CAS No.</th> <th>Content (%w/v)</th> </tr> </thead> <tbody> <tr> <td>Spiromesifen</td> <td>283594-90-1</td> <td>> 22.90</td> </tr> <tr> <td>Glycerol</td> <td>56-81-5 200-289-5</td> <td>>5.00 - <25.00</td> </tr> </tbody> </table> | Ingredient | CAS No. | Content (%w/v) | Spiromesifen | 283594-90-1 | > 22.90 | Glycerol | 56-81-5 200-289-5 | >5.00 - <25.00 |
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| 4. First Aid Measures. | |
| General information: | Contaminated clothing and shoes must be removed immediately. |
| Skin contact: | After contact with skin, wash immediately with plenty of water and soap. |
| Eye contact: | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| Ingestion: | Do not induce vomiting. Wash out mouth and water. Call a doctor immediately. |
| Inhalation: | Bring casualties into the fresh air. Call a doctor immediately. |
| Further information: | Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON. |
| 5. Fire-Fighting Measures. | |
| Specific hazards during fire fighting: | Carbon monoxide (CO) |
| Extinguishing media and methods: | Water spray, Carbon dioxide (CO ₂) Alcohol-resistant foam Dry chemical |
| Recommended protective clothing: | Fire fighters must wear self contained breathing apparatus. |
| Further information: | Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by bunding area with sand or earth. |
| 6. Accidental Release Measures. | |
| Personal Precautions: | Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls. |
| Environmental Precautions: | Washings must be prevented from entering surface water drains or waterways. |

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| Procedure for spill: | <p>Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.</p> <p>Contaminated material must be disposed of in accordance with all local authority requirements.</p> <ol style="list-style-type: none"> For quantities up to 50L of product bury in a secure approved landfill site. For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established. <p>Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.</p> |
| Procedure for Disposal: | <ol style="list-style-type: none"> Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. Burning of empty containers if circumstances, especially wind direction, permit is an alternative method. Do not burn unless in a suitable incinerator. Product or unused spray mix should be disposed of according to label instructions. |
| 7. Handling and Storage. | |
| Handling: Storage: | <p>Use only in area provided with appropriate exhaust ventilation. Store in a place accessible by authorized persons only. Keep containers tightly closed in a cool, well-ventilated place. Protect against frost. Storage temperature -10 - 40°C.</p> |
| 8. Exposure Control/Personal Protection | |
| Exposure Controls: | Glycerol 10mg/m ³ (TWA) |
| Engineering measures: | Use in well ventilated areas. |
| Respiratory protection: | Where insufficient ventilation, use suitable respiratory protection. |
| Hand protection: | PVC or nitrile rubber gloves. |
| Eye protection: | Chemical resistant goggles must be worn. |
| Other protective equipment: | Wear suitable protective clothing. |
| Hygiene measures: | Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of |

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| work. Change contaminated protective clothing. Keep away from food, drinks and tobacco. | |
| 9. Physical and Chemical Properties | |
| Form: | Suspension |
| Colour: | white |
| Odour: | slight, product specific |
| pH: | 4.9 Determined in the undiluted form |
| Flash point: | >100°C |
| Ignition temperature: | 405°C |
| Density | 1.06g/ml at 20°C |
| Explosive limits: | Not explosive 92/69/EEC, A.14/OECD 113 |
| 10. Stability and Reactivity | |
| Conditions to avoid: | Extremes of temperature and direct sunlight. |
| Materials to avoid | None |
| Hazardous reactions: | No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions. |
| 11. Toxicological Information | |
| Acute oral toxicity: | LD ₅₀ : (rat) >2,500mg/kg |
| Acute inhalation toxicity: | LC ₅₀ : (rat) >2.759mg/l Exposure time: 4h Highest attainable concentration |
| Acute Dermal Toxicity | LD ₅₀ (rat) >4,000mg/kg |
| Skin irritation: | Non-irritant (rabbit) |
| Eye irritation: | Non-irritant (rabbit) |
| Sensitization: | Non-sensitizing (guinea pig) OECD Test Guideline 406, Buehler test |
| Sensitization: | Sensitizing (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test The value mentioned relates to the active ingredient. |

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| 12. Ecological Information | |
| Acute fish toxicity: | LC ₅₀ : 0.245mg/l Bluegill sunfish (<i>Lepomis macrochirus</i>) Exposure time: 96h |
| Toxicity for daphnia: | EC ₅₀ : 68.7mg/l water flea (<i>Daphnia magna</i>) Exposure time: 48 h |
| Toxicity to algae: | EC ₅₀ > 6.4mg/l (<i>Pseudokirchneriella subcapitata</i>) Exposure time: 72h |
| 13. Disposal Considerations. | |
| Disposal: | Ensure product is not discharged to the environment. For disposal use a certified waste disposal company. |
| Empty container precautions: | After final product withdrawal, all residues must be removed from containers (drip free, powder free or paste free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. Containers may be recycled with a certified drum recycling company. |
| 14. Transportation Information. | |
| Rail/Road (RID/ADR) | UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (spiromesifen solution), Class 9, Packing Group III, Hazchem 2X. |
| Sea (IMDG-Code) | UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (spiromesifen solution), Class 9, Packing Group III, Hazchem 2X. Marine Pollutant. |
| Air (ICAO/IATA) | UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (spiromesifen solution), Class 9, Packing Group III, Hazchem 2X. |



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15. Regulatory Information.

HSNO Approval Number: HSR007691

HSNO Controls(inc. Tracking): See www.ermanz.govt.nz for controls.

Approved Handlers required: Approved Handlers not required at time of use.

ACVM Registration: P7567

ACVM Controls: See www.nzfsa.govt.nz/acvm for registration conditions.

16. Other Information:

6.5B Harmful – may cause sensitisation from prolonged skin contact.

6.9B Harmful – may cause organ damage from repeated oral exposure at high doses.

9.1A Very toxic to aquatic organisms- must not be applied directly onto or into water.

R43 May cause sensitisation by skin contact.

R48 Danger of serious damage to health by prolonged exposure.

R50 Very toxic to aquatic organisms.

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.