

| 1. Identification of the Substance/Mixture and Supplier. | | | |
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| Product name: | Previcur N | | |
| Other names: | | | |
| Recommended Use: | Agricultural fungicide used as spray or dip. | | |
| Company details: | 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 not hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. | | |
| Classification and type: | HSNO Class[†] 6.1E, 6.9B, 8.1A, 9.2B May be harmful if swallowed. Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. Warning – this product may be corrosive to metal. Toxic to the soil environment. | | |
| Risk & Safety Phrases: | R48, | | |
| 3. Composition/Information on Ingredients. | | | |
| Chemical Identity of Ingredients: | propamocarb | | |
| | Mixture: | | |
| | Ingredient | CAS No. | Content (%w/v) |
| | Propamocarb monohydrochloride | 25606-41-1 | 71.6 (=60.0% propamocarb) |
| | Other ingredients Including water | (non hazardous) | 36.9% |

4. FIRST Aid Measures:

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| Description of necessary first aid measures: | In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON. |
| Workplace facilities: | No specific facilities required. Standard emergency equipment must be available. |
| Hygiene Practices: | Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work. |
| Poisoning symptoms: | No case of human poisoning due to this product is on record. |
| Eye: | If product gets in eyes wash it out immediately with water. |
| Skin: | If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water. |
| Inhaled: | Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary. |

5. Fire-Fighting Measures.

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| Fire Hazard Properties: | Stable under normal conditions of use. At extremely high temperatures, such as in a fire, carbon and nitrogen oxides may be given off. |
| Extinguishing media: | Product is not combustible. Use extinguishing media suitable for the surrounding fire. |
| Recommended Protective clothing: | When fighting a major fire wear an air-supplied respirator. Wear protective equipment. |

| 6. Accidental Release Measures. | |
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| Personal Precautions: | <p>Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.</p> |
| Environmental Precautions: | Washings must be prevented from entering surface water drains or waterways. |
| 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. Contaminated material must be disposed of in accordance with all local authority requirements.</p> <ul 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: | <p>a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. b) Burning of empty containers if circumstances, especially wind direction, permit is an alternative method. Do not burn unless in a suitable incinerator. c) Product or unused spray mix should be disposed of according to label instructions.</p> |
| 7. Handling and Storage. | |
| Handling Practices: | Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking. |
| Conditions for Safe Storage and Store Sire Requirements: | Store in a cool, dry, well ventilated place and protect from sunlight. |
| Corrosive Hazards: | Corrosive to metals. |
| Packaging: | Store in original container, tightly closed, away from foodstuffs. |

| 8. Exposure Control/Personal Protection | |
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| Exposure standards: | Propamocarb (Bayer recommends an exposure limit) of TWA: 1.1mg/ m ³ |
| Engineering measures: | Use in well ventilated areas. |
| Respiratory protection: | Where insufficient ventilation, use suitable respiratory protection. |
| Hand protection: | Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately. |
| Eye protection: | Chemical goggles/face protection. |
| Other protective equipment: | Wear suitable protective clothing. |
| Hygiene measures: | Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco. |
| 9. Physical and Chemical Properties | |
| Form: | Liquid |
| Colour: | Clear, colourless to light yellow |
| Odour: | Typical odour |
| Vapour pressure: | 38 mbar |
| Density: | 1.085g/mL at 20°C |
| Solubility in water: | Miscible |
| pH: | 3.0 |
| Flash point: | Not flammable |
| Boiling point: | ~ 100°C |
| Partition coefficient (octanol/water) | Log P _{ow} = -2.6 (at pH 4.1) |
| 10. Stability and Reactivity | |
| Stability of the Substance: | Stable under standard conditions. |
| Conditions to Avoid: | Extremely high temperatures, such as in a fire, carbon and nitrogen oxides may be given off. |
| Materials to Avoid: | None |
| Hazardous Reactions: | None |

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| 11. Toxicological Information | |
| | <u>Propamocarb hydrochloride</u> |
| Acute oral toxicity: | LD ₅₀ : rat (male) 2000 - 2900mg/kg |
| Acute dermal toxicity: | LD ₅₀ : rat >3000mg/kg |
| Acute Inhalation: | LC ₅₀ : rat > 8mg/L (4h) |
| Skin irritation: | Non irritating (rabbit) |
| Eye irritation: | Moderately and reversibly irritating (rabbit) |
| Sensitisation: | Non sensitising (guinea pig) |
| Other information | |
| 12. Ecological Information | |
| | <u>Propamocarb hydrochloride</u> |
| Acute fish toxicity: | LC ₅₀ : > 99mg/l (96h); rainbow trout LC ₅₀ : > 92mg/l (96h); bluegill sunfish |
| Toxicity for Daphnia: | EC ₅₀ : >106mg/l (48h); Water flea (<i>Daphnia magna</i>) |
| Toxicity for Algae: | IrC ₅₀ : 595mg/l (90h); algae (<i>Scenedesmus quadricauda</i>) IbC ₅₀ : 378mg/l (90h); algae (<i>Scenedesmus quadricauda</i>) |
| Toxicity for Birds: | Acute oral LD ₅₀ : 3050mg/kg for pheasant Acute oral Ld ₅₀ : >6289mg/kg mallard duck |
| 13. Disposal Considerations. | |
| Product Disposal: | Dispose of this product only by using according to the label, or at an approved landfill or other approved facility. |
| Container Disposal: | Triple rinse the empty container adding rinseate to the spray tank. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose. |
| 14. Transportation Information. | |
| Rail/Road (RID/ADR) | Not dangerous cargo |

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| Sea (IMDG-Code) | Not dangerous cargo |
| Air (ICAO/IATA) | Not dangerous cargo |
| 15. Regulatory Information. | |
| HSNO Approval Number: | HSR000481 |
| HSNO Controls (inc. Tracking): | See www.ermanz.govt.nz for controls. |
| Approved Handlers required: | Approved Handlers not required at time of use. |
| ACVM Registration: | P 2934 |
| ACVM Controls: | See www.nzfsa.govt.nz/acvm for registration conditions. |
| 16. Other Information. | |
| 6.1E May be harmful if swallowed. 6.9B Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. 8.1A Warning – this product may be corrosive to metal. 9.2B Toxic to the soil environment. | |
| R48 Danger of serious damage to health by prolonged exposure. | |

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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.