



# HealthGuard Corporation Pty. Ltd.

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## Safety Data Sheet

In accordance with Safe Work Australia and Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### SECTION 1: Identification of the Material and Supplier

|  |  |
|--|--|
| <b>1.1 Product Name</b>                | HealthGuard® PL  |
| <b>Chemical name</b>                   | Not Applicable   |
| <b>Other / Shipping Names</b>          | ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. (contains Permethrin)    |
| <b>CAS No.</b>                         | Not Applicable   |
| <b>EC No.</b>                          | Not Applicable   |
| <b>Reach Registration No.</b>          | Not Applicable   |
| <b>1.2 Recommended Use</b>             | Biocidal Processing Agent  |
| <b>1.3 Supplier Details by Country</b> | <b>- Australia -</b>   |
| <b>Supplier/Manufacturer</b>           | HealthGuard Corporation Pty. Ltd.  |
| <b>ABN:</b>                            | 30 082 752 378   |
| <b>Address</b>                         | 7 Leader Street, CAMPBELLFIELD, VIC. 3061 Australia                        |
| <b>Telephone No.</b>                   | + 61 (0) 3 9308 6888   |
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|  | <b>- Europe -</b>  |
|  | HealthGuard Corporation UK Limited   |
|  | -  |
|  | H5, Ash Tree Court, NG8 6PY Nottingham England                             |
|  | -  |
|  | -  |
|  | -  |
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|  |                                 |  |                                       |  |
|--|---------------------------------|--|---------------------------------------|--|
| <b>1.4 EMERGENCY TELEPHONE NUMBERS</b> | <b>Estonia</b><br>+ 112 / 16662 | <b>Australia</b><br>+ 61 (0) 418 354 270 | <b>Ireland</b><br>+ 353 (01) 809 2166 | <b>Turkey</b><br>+ 90 212 454 0919/ 0633 |
|--|---------------------------------|--|---------------------------------------|--|

### SECTION 2: Hazards Identification

#### Hazardous Classification

|   |             |                              |            |                                  |            |
|---|-------------|------------------------------|------------|----------------------------------|------------|
| <b>2.1</b> Classification of the substance/mixture according to Regulation (EC) No. 1272/2008 (CLP) |             |                              |            |                                  |            |
| <b>2.2</b> Labelling according to Regulation (EC) No. 1272/2008 (CLP)                               |             |                              |            |                                  |            |
| <b>Acute Oral Toxicity</b>  | Category 4  | <b>Acute Dermal Toxicity</b> | Category 4 | <b>Acute Toxicity Inhalation</b> | Category 4 |
| <b>Skin Corrosion/Irritation</b>  | Category 1B | <b>Sensitiser</b>            | Category 1 | <b>Environmental</b>             | Category 1 |
| <b>CLP Label Elements</b>   |             |                              |            |                                  |            |



Signal word

Danger

Warning

#### Hazardous Statements

|      |  |
|------|--|
| H302 | Harmful if swallowed.                    |
| H312 | Harmful in contact with skin.            |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause allergic skin reaction.        |
| H400 | Very Toxic to aquatic life.              |

#### Precautionary Statements (Prevention)

|      |  |
|------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| P264 | Wash thoroughly after handling.  |
| P271 | Use only outdoors or in well ventilated areas.                             |
| P272 | Contaminated work clothing should not be allowed out of the work place.    |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

#### Precautionary Statements (Response)

|                |  |
|----------------|--|
| P303+P361+P353 | IF ON SKIN (OR HAIR): Remove/take off immediately all contaminated clothing, rinse skin with water/shower.                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313      | If skin irritation or rash occurs: Get medical advice attention.   |
| P337+P313      | If eye irritation persists: Get medical attention.   |
| P362+P364      | Take off contaminated clothing and wash before reuse.  |
| P391           | Collect spillage.  |
| P301+P312      | IF SWALLOWED: Call POISONS CENTRE/doctor/physician/first aider/if you feel unwell.   |

#### Poisons Schedule (Australia)

S 5 This material is a schedule poison (S5) and must be stored, maintained and used in accordance with the relevant regulations.

**SECTION 3: Composition / Information on Ingredients**3.1 **Substances:** See ingredients in Section 3.2.

| 3.2 | Name  | Mixture   | %     | Classification (EC) No. 1272/2008 [CLP]   |
|-----|---|---|-------|---|
|     | 2-(2-Butoxyethoxy) ethanol;<br>Diethylene glycol monobutyl ether                            | CAS No. 112-34-5<br>EC No. 203-961-6<br>Index No. 603-096-00-8<br>Reach No. 012119475104-44 | > 60% | Eye Corrosive/Irritant 2, H319  |
|     | Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | CAS No. 52645-53-1<br>EC No. 258-067-9<br>Index No. 613-058-00-2<br>Reach No. Not Available | < 10% | Acute Tox 4, Skin Sens. 1, Aquatic acute 1, Aquatic Chronic 1; H302, H317, H332, H410                                   |
|     | Isothiazolinone mixed   | CAS No. 55965-84-9<br>EC No. 611-341-5<br>Index No. 613-167-00-5<br>Reach No. Not Available | < 10% | Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1: H331, H311, H301, H314, H317, H400, H410 |

ALL other ingredients are classified as NON-HAZARDOUS according to the criteria of Safe Work Australia and Regulation (EC) No. 1272/2008. Up to 100 %  
This material is NOT listed on the Australian Inventory of Chemical Substances (AICS).

**SECTION 4: First Aid Measures**

If poisoning occurs, contact a doctor or Poisons Information Centre. [Australia](#) on 13 11 26 – or – [New Zealand](#) on 0800 764 766

|   |  |
|---|--|
| 4.1 <b>General Advice</b>   | Remove from source of exposure to fresh air, remove contaminated clothing. Consult Doctor if required and provide this Safety Data Sheet. An Eyebath, Safety Shower and First Aid Kit should be made available in the workplace.   |
| <b>Eye contact</b>  | Immediately irrigate with large amounts of water for at least 15 minutes including under the eyelids.<br><b>**Seek Medical Assistance</b>  |
| <b>Inhalation</b>   | Remove victim from exposure-avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume comfortable position and keep warm. <b>**IF</b> breathing has stopped apply artificial respiration at once and seek medical assistance. If victim feels unwell upon recovery contact a doctor.                                      |
| <b>Ingestion</b>  | If conscious, immediately rinse mouth with plenty of water and give plenty of water to drink. <b>**DO NOT</b> give liquids to an unconscious person. If victim feels unwell contact a doctor or poisons information centre on number <b>13 11 26 *Australia, *Estonia + 112 / 16662, *Ireland + 353 (01) 809 2166, *Turkey + 90 212 454 0919/ 0633.</b>                        |
| <b>Skin contact</b>   | Remove contaminated clothing and wash skin with plenty of soap and water. If irritation occurs seek medical advice. Wash contaminated clothing before re-use.  |
| 4.2 <b>Most important symptoms and effects both acute and delayed.</b>                                  | Refer to section 11.   |
| 4.3 <b>Indication of any immediate medical attention and special treatment needed. Advice to Doctor</b> | None indicated. Treatment should be directed towards symptoms and condition of the patient. Treat symptomatically.<br><b>**Refer to Section 11 – Toxicology of Safety Data Sheet for health affects. Treat symptomatically. **Refer to Section 11 – Toxicology of Safety Treat symptomatically. **Refer to Section 11 – Toxicology of Safety Data Sheet for health effect.</b> |

**SECTION 5: Fire-Fighting Measures**

|   |  |
|---|--|
| 5.1 <b>Suitable Extinguishing Media</b>                       | Use extinguishing media appropriate for surrounding fire. Water spray, Foam, Carbon Dioxide and Dry Powder Chemicals.  |
| 5.2 <b>Specific hazards arising from substance or mixture</b> | Heating can cause expansion and possible violent rupture of containers. If safe to do so remove containers from path of fire. Smoke may contain combustion products, which may be toxic including Carbon monoxide and Carbon dioxide.  |
| 5.3 <b>Advice to fire-fighters</b>                            | First responders: Isolate fire, deny unnecessary entry, wear protective clothing, and fight fire from protected position. Call fire brigade tell of nature of the hazard. Fire fighters to wear self contained breathing apparatus and full protective clothing when fighting fire if risk of exposure to vapour of products or combustion exists. |
| <b>Hazchem Code (Australia)</b>                               | • 3Z   |

**SECTION 6: Accidental Release Measures**

*Goggles/Face Shield; Chemical Resistant Overalls; Chemical Resistant Work boots; Gloves (Nitrile)*

|  |  |
|--|--|
| 6.1 <b>Personal precautions, protective equipment and emergency procedures</b> | Slippery when spilt. Avoid accidents, clean up spill immediately. <b>DO NOT</b> touch or walk through spilt material. Remove unnecessary personnel and ignition sources. Attempt to contain spill. <b>DO NOT</b> allow product to enter drains or sewers.<br>Contact Emergency Services and Environmental Protection Authority if spill cannot be contained. |
| 6.2 <b>Environmental Precautions</b>   | Prevent from entering the environment especially drains and waterways.   |
| 6.3 <b>Methods and materials for containment and cleaning up</b>               | Contain-prevent runoff into drains and waterways. Use absorbent material (sand, soil or other inert material) to soak up spill and remove to an appropriately labelled container for disposal. Minor spills can be cleaned using absorbent material or water. <b>DO NOT</b> allow wastewater to enter sewers or drains.                                      |
| 6.4 <b>Reference to other sections</b>   | For disposal see section 13.   |

**SECTION 7: Handling and Storage**

|  |   |
|--|---|
| 7.1 <b>Precautions for Safe Handling</b> | Material is considered HAZARDOUS avoid contact with raw material. Where exposure to raw material exists use PPE (See Section 8: Exposure Controls / Personal Protective Equipment). Use only in well ventilated areas. <b>DO NOT</b> eat, drink or smoke when using the product. Wash hands after use and before eating. Remove PPE and contaminated clothing after use and before eating. Wash all PPE after use and before storing. |
| 7.2 <b>Conditions for Safe Storage</b>   | Store in chemical resistant plastic containers in a cool dry well ventilated place away from direct sunlight. Keep containers closed when not in use. Protect from physical damage. Do not store in metal receptacles. Do not store with oxidising agents or flammable liquids.   |

**SECTION 8: Exposure Controls / Personal Protection****8.1 Control Parameters**

|  | LIST                     | VALUE   | TYPE                             |
|--|--------------------------|---|----------------------------------|
| 2-(2-Butoxyethoxy) ethanol;<br>Diethylene glycol monobutyl ether | Dow IHG, EU IOELV, ACGIH | 35ppm, 67.5 mg/m <sup>3</sup> 10ppm, 101.2 mg/m <sup>3</sup> 15ppm, 10ppm | TWA, Inhaled fraction and vapour |

The following materials had no OEL's on our records

|                       |                    |
|-----------------------|--------------------|
| Permethrin            | CAS No. 52645-53-1 |
| Isothiazolinone mixed | CAS No. 55965-84-9 |

**8.2 Exposure Controls**

**8.2.1 Engineering controls:** Use engineering controls such as ventilation to maintain airborne levels below exposure limit requirements. If there is no limit assigned general ventilation should be sufficient for most operations.

**8.2.2 Personal Protection Equipment**

|                                |   |
|--------------------------------|---|
| <b>Eye and face protection</b> | Safety glasses with side shield, goggles or face shield.  |
| <b>Skin protection</b>         | Chemically resistant overalls and boots and gloves (Nitrile).   |
| <b>Respiratory protection</b>  | If airborne concentrations are high or unknown or the risk of inhalation of spray or mists exists wear a combined Organic Particulate Filter. |
| <b>Other Information</b>       | Selection of protective equipment should be in accordance with the relevant regulation or standards.  |

**SECTION 9: Physical and Chemical Properties**

|                                      |                                    |  |  |
|--------------------------------------|------------------------------------|--|--|
| <b>Form / Colour / Odour</b>         | Clear yellow liquid / Fruity odour | <b>Relative Density (Specific Gravity)</b>   | 0.95 – 0.98  |
| <b>pH</b>                            | 3.0 – 5.0                          | <b>Solubility</b>                            | Soluble in alcohols and glycols<br>Miscible in water |
| <b>Melting Point/ Freezing point</b> | No data available                  | <b>Partition coefficient n-octanol/water</b> | No data available                                    |
| <b>Boiling Point</b>                 | > 224°C estimate                   | <b>Auto Ignition Temperature</b>             | No data available                                    |
| <b>Flash Point (closed cup)</b>      | Approx. 114°C                      | <b>Decomposition Temperature</b>             | > 114°C  |
| <b>Flash point (open cup)</b>        | No data available                  | <b>Viscosity</b>                             | Approx. 6 mPa.s @ 20°C estimate                      |
| <b>Evaporation Rate</b>              | Slow < 0.01                        | <b>Explosive Properties</b>                  | No data available                                    |
| <b>Vapour Pressure</b>               | No data available                  | <b>Additional Information</b>                | No additional information available                  |
| <b>Vapour Density</b>                | No data available                  |  |  |

**SECTION 10: Stability and Reactivity**

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No dangerous reactions known under normal use.  |
| <b>10.2 Chemical Stability</b>                 | Stable under normal conditions of use.  |
| <b>10.3 Possibility of Hazardous reactions</b> | No Data.  |
| <b>10.4 Conditions to avoid</b>                | Excessive heat and cold. Direct sunlight for prolonged periods.   |
| <b>10.5 Incompatible materials</b>             | Strong Acids. Strong Bases and Oxidizing agents.  |
| <b>10.6 Hazardous decomposition products</b>   | Excessive temperature or burning may result in decomposition products including but not limited to aldehydes, ketones, organic acids and Carbon monoxide. |

**SECTION 11: Toxicology Information**

*No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet, and the Product Label.*

**\*\*Symptoms that may arise if the product is mishandled are: -**

**11.1 Information on toxic effects****Acute Toxicity**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | The material is not thought to produce respiratory irritation. However inhalation of vapours during high temperatures for prolonged periods may produce drowsiness and dizziness with lack of co-ordination.  |
| <b>Ingestion</b>    | Accidental ingestion of the product may result in irritation and possible corrosion within the mouth and the gastro intestinal tract. Symptoms may include burning sensation and suppression of the central nervous system and accompanying drowsiness.             |
| <b>Skin Contact</b> | Contact with the skin may result in burns and sensitisation, irritation and mild inflammation. Prolonged exposure may result in contact dermatitis characterised by erythema (skin redness) and oedema (swelling), which may progress to vesiculation (blistering). |
| <b>Eye</b>          | May cause severe eye irritation/inflammation damage and pain with possible corneal injury.  |

*The above information is based on practical experience in handling the product and on the existing data on the hazardous components.*

**No testing exists for the mixture.**

**Toxicological information Hazardous components**

**2-(2-Butoxyethoxy) ethanol; Diethylene glycol monobutyl ether (Health Effects)** Oral LD<sub>50</sub> (rat): 3305 mg/kg mouse 2410mg/kg; Dermal LD<sub>50</sub> (rabbit): 2800 mg/kg. Prolonged skin contact is likely to result in absorption of harmful amounts. Inhalation. No adverse effects are anticipated from single exposure. No relevant data for respiratory and narcotic effects. LC50 has not been determined. Eye. May cause severe eye irritation. Long-term effects: Available evidence suggests that repeated or prolonged exposure to this chemical can result in blood changes (red blood cell haemolysis). These effects were observed only at very high doses in rats. (3,4) There are no reports of adverse effects in humans from use of products containing this material.

**Permethrin (Health Effects)** Studies with laboratory animals have shown permethrin to have low oral and dermal toxicity. It is minimally irritating to the eyes and practically non-irritating to the skin. Low toxicity if inhaled. Permethrin is a skin sensitiser. Experience to date indicates that contact with permethrin may produce skin sensations such as numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours. Large doses of permethrin ingested by laboratory animals produced symptoms such as diarrhoea, salivation, tremors and intermittent convulsions. Over exposure of animals to permethrin via inhalation has also produced hypo activity and hypersensitivity. The concentration of the cis isomer is responsible for the acute toxicity of permethrin; therefore the higher the cis content the greater the toxicity. The product has low animal toxicity: the Acute Oral LD<sub>50</sub> (rat) >2000 mg/kg - undiluted and a low dermal toxicity; the Acute Dermal LD<sub>50</sub> (rabbit) > 2,000 g/kg. Acute inhalation Rat LC50 >5000mg/kg<sup>3</sup>.

**Isothiazolinone (Health Effects)** Acute Oral LD<sub>50</sub> (rat) 457 mg/kg, Dermal LD<sub>50</sub> (rabbit) 660 mg/kg, Eye irritation (rabbit) corrosive, Skin irritation (rabbit) severe irritation may be corrosive, Inhalation LC<sub>50</sub> (rat) 2.6 mg/L for 4 hours.

**SECTION 12: Ecological Information**

**12.1 Toxicity** Very toxic to aquatic organisms. May cause long-term effects in the aquatic environment. Do not discharge into sewers or waterways. No Ecological data exists for the product.


**Ingredients**

|  |  |
|--|--|
| <p><b>2-(2-Butoxyethoxy) ethanol;<br/>Diethylene glycol monobutyl ether<br/>Permethrin</b></p>   | <p>Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100mg/l in most sensitive species).</p> <p><b>Effects on aquatic organisms:</b> Aquatic ecosystems are particularly vulnerable to the impact of Permethrin. A fragile balance exists between the quality and quantity of insects and other invertebrates that serve as fish food. The 48-hour LC50 for rainbow trout is 0.0125 mg/L for 24 hours, and 0.0054 mg/L for 48 hours. The 48-hour LC50 in bluegill sunfish and salmon is 0.0018 mg/L. As a group, synthetic pyrethroids were toxic to all estuarine species tested. They had a 96-hour LC50 of less than or equal to 0.0078 mg/L for these species. The bio concentration factor for Permethrin in bluefish is 715 times the concentrations in water and is 703 in catfish. This indicates that the compound has a low to moderate potential to accumulate in these organisms.</p> <p><b>Effects on other organisms:</b> Permethrin is extremely toxic to bees. Severe losses may be expected if bees are present at treatment time, or within a day thereafter. Permethrin is also toxic to wildlife. It should not be applied, or allowed to drift, to crops or weeds in which active foraging takes place.</p> <p>No data available.</p>   |
| <p><b>12.2 Persistence and Degradability</b></p> <p><b>2-(2-Butoxyethoxy) ethanol;<br/>Diethylene glycol monobutyl ether<br/>Permethrin</b></p>  | <p>Biodegradability: aerobic-Exposure time 28 d Result: 91.7 % - Readily biodegradable (OECD Test Guideline 301B).</p> <p><b>Breakdown in soil and groundwater:</b> Permethrin is of low to moderate persistence in the soil environment, with reported half-lives of 30 to 38 days. Permethrin is readily broken down, or degraded, in most soils except organic types. Soil microorganisms play a large role in the degradation of Permethrin in the soil. The addition of nutrients to soil may increase the degradation of Permethrin. It has been observed that the availability of sodium and phosphorous decreases when Permethrin is added to the soil. Permethrin is tightly bound by soils, especially by organic matter. Very little leaching of Permethrin has been reported. It is not very mobile in a wide range of soil types. Because Permethrin binds very strongly to soil particles and is nearly insoluble in water, it is not expected to leach or to contaminate groundwater.</p> <p><b>Breakdown in water:</b> The results of one study near estuarine areas showed that Permethrin had a half-life of less than 2.5 days. When exposed to sunlight, the half-life was 4.6 days. Permethrin degrades rapidly in water, although it can persist in sediments. There was a gradual loss of toxicity after Permethrin aged for 48 hours in sunlight at 0.05 mg/L in water.</p> <p><b>Breakdown in vegetation:</b> Permethrin is not phytotoxic, or poisonous, to most plants when it is used as directed. Some injury has occurred on certain ornamental plants. No incompatibility has been observed with Permethrin on cultivated plants. Treated apples, grapes, and cereal grains contain &lt;1mg/kg of Permethrin at harvest time.</p> <p>No data available.</p> |
| <p><b>12.3 Bio Accumulative Potential</b></p> <p><b>2-(2-Butoxyethoxy) ethanol;<br/>Diethylene glycol monobutyl ether<br/>Permethrin</b></p> <p><b>Isothiazolinone mixed</b></p>         | <p>Does not bioaccumulate.</p> <p>Low potential for bioaccumulation.</p> <p>No data available.</p>   |
| <p><b>12.4 Mobility in Soil</b></p> <p><b>2-(2-Butoxyethoxy) ethanol;<br/>Diethylene glycol monobutyl ether<br/>Permethrin</b></p> <p><b>Isothiazolinone mixed</b></p>                   | <p>Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Potential for mobility in soil is very high (Koc between 0 and 50). Partition coefficient, soil organic carbon/water (Koc): 2 Estimated. Henry's Law Constant (H): 1.52E-09 atm*m3/mole; 25 °C Estimated.</p> <p>No data available.</p> <p>No data available.</p>   |
| <p><b>12.5 Results of PBT and vPvB assessment</b></p> <p><b>2-(2-Butoxyethoxy) ethanol;<br/>Diethylene glycol monobutyl ether<br/>Permethrin</b></p> <p><b>Isothiazolinone mixed</b></p> | <p>No data available.</p> <p>No data available.</p> <p>No data available.</p>  |
| <p><b>12.6 Other Adverse Effects</b></p> <p><b>2-(2-Butoxyethoxy) ethanol;<br/>Diethylene glycol monobutyl ether<br/>Permethrin</b></p> <p><b>Isothiazolinone mixed</b></p>              | <p>No data available.</p> <p>Very toxic to aquatic life.</p> <p>No data available.</p>   |
| <p><b>12.7 Additional Information</b></p>  | <p>Do not allow product to enter waterways.</p>  |

**SECTION 13: Disposal Considerations**

**13.1 Waste treatment methods** This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

**SECTION 14: Transport Information**

|   |   |   |
|---|---|---|
| <p><b>14.1 UN No.<br/>ADG No.</b></p>           | <p>ADR / RID 3082    ADN / ADN 3082    IMDG 3082    ICAO / IATA 3082</p> <p>3082</p> <p>Not classified as Dangerous Goods according to the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail in accordance with Section 3.3.3 Australian Special Provisions (ADG 7) if transported in packaging, IBC, or any other receptacle not exceeding 500kgs.</p> |  |
| <p><b>14.2 Proper Shipping Name</b></p>         | <p>Environmentally Hazardous Substance. Liquid N.O.S. (Contains Permethrin).</p>  |   |
| <p><b>14.3 Transport Hazard Class</b></p>       | <p>Class 9 - Miscellaneous Dangerous Goods.</p>   |   |
| <p><b>14.4 Packing Group</b></p>                | <p>III.</p>   |   |
| <p><b>14.5 Environmental Hazard</b></p>         | <p>Marine pollutant.</p>  |   |
| <p><b>14.6 Special Precautions for User</b></p> | <p>Do not store with Oxidizing Agents. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.</p>  |   |

**SECTION 15: Regulatory Information**

15.1 Safety, health and environmental regulations / for the substance or mixture.

**2-(2-Butoxyethoxy) ethanol;** CAS No. 112-34-5

**Diethylene glycol monobutyl ether**

European Inventory of Existing Chemical Substances (EINECS). The components of this product are on the EINECS inventory or are exempt from inventory requirements. EINECS Number 203-961-6.

**Permethrin** CAS No. 52645-53-1

"EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)", "European Customs Inventory of Chemical Substances ECICS (English)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "European Union (EU) Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values (IOELVs)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "UK Workplace Exposure Limits (WELs)", "European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI", "European Union (EU) Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values (IOELVs) (Spanish)", "European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31".

**Isothiazolinone mixed** CAS No. 55965-84-9

"European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI", "European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31".

15.2 **Chemical Safety Assessment**

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

**2-(2-Butoxyethoxy) ethanol;** CAS No. 112-34-5 EINECS No. 203-961-6

**Diethylene glycol monobutyl ether** Serious damage/eye irritation Category 2 H319

**Hazard Class**

**Permethrin** CAS No. 52645-53-1 EINECS No. 258-067-9

**Hazard Class** 1 Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1. H302, H317, H332, H410

**Isothiazolinone mixed** CAS No. 55965-84-9

**Hazard Class** Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1, Acute Tox. 2, STOT SE 3, Met. Corr. 1. H301, H311, H331, H314, H317, H318, H400, H410, H310, H330, H335, H413, H290

HAZARDOUS according to the criteria of Safe Work Australia and Regulation (EC) No. 1272/2008.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). Registered as HealthGuard EC Miticide 53819/1001.

**Poisons Schedule (Australia)**

S 5 This material is a schedule poison (S5) and must be stored, maintained and used in accordance with the relevant regulations.

**SECTION 16: Other Information**

*Changes have been made to all sections of this SDS.*

# Legend

|   |  |
|---|--|
| <b>ACGIH</b> American Conference of Government Industrial Hygienists.   | <b>ICAO</b> International Civil Aviation Organisation.                                   |
| <b>ADNR</b> Regulation for the carriage of Dangerous Substances on the Rhine.                                   | <b>IMDG</b> International Maritime Dangerous Goods.                                      |
| <b>ADR</b> Agreement on Dangerous Goods by Road.  | <b>IOELV</b> Indicative Occupational Exposure Limit Value.                               |
| <b>APVMA</b> Australian Pesticides & Veterinary Medicines Authority.  | <b>MARPOL</b> International Convention for the Prevention of Pollution from Ships.       |
| <b>CAS No</b> Chemical Abstract Service Number.   | <b>NOS</b> Not Otherwise Specified.  |
| <b>CLP</b> Classification, Labelling & Packaging.   | <b>OEL</b> Occupational Exposure Limit.  |
| <b>EC</b> European Community.   | <b>PPE</b> Personal Protective Equipment.  |
| <b>EINECS</b> European Inventory of Existing Chemical Substances.   | <b>RID</b> Regulations Concerning the International Carriage of Dangerous Goods by Rail. |
| <b>HGC</b> HealthGuard Corporation Pty. Ltd.  | <b>SDS</b> Safety Data Sheet.  |
| <b>IATA</b> International Air Transport Association.  | <b>SUSDP</b> Standard for the Uniform Scheduling of Drugs and Poisons (Australia only).  |
| <b>IBC</b> International code for the construction and equipment of ships carrying Dangerous Chemicals in Bulk. | <b>TWA</b> Time Weighted Average.  |

**Last Updated** 01<sup>st</sup> August 2016

**Reason for Update** Format Change & Regulatory Compliance

**Safety Data Sheets (SDS) are updated frequently, please ensure that you have a current copy.**

HGC has a responsibility to take reasonable care for our own health and safety, and the health and safety of others who may be affected by our acts, or omissions. This SDS at the date of issue has health and safety information of the product, and how to safely handle and use this product in the workplace. Information sourced is given to the best of our knowledge. HGC reserves the right to alter formulations and specifications as necessary.

HGC recommend that each user review the information contained for their specific end use. HGC will not be responsible for any damages of any type resulting from use of or reliance on this information.

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