SAFETY DATA SHEET

PESTGARD RESIDUAL INSECTICIDE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : PESTGARD RESIDUAL INSECTICIDE
Material number :

Supplier's details (Australia)
Company : VELOCITY VEHICLE CARE (A.B.N. 166 118 618)
Address : 27-33 Tottenham Pde, Tottenham, VIC, 3012
Telephone : 1300 990 074 (9am -5 pm, Mon-Fri)

Supplier's details (New Zealand)
Company : VELOCITY VEHICLE CARE NZ
Address : 3 London Street, Hamilton 3240.
Telephone : Local 0800 483 562 (9am -5 pm, Mon-Fri)

Emergency telephone numbers (24 Hours)
Australia: 1800 127 406
Poison Information Centre Tel 13 11 26

New Zealand 0800 243622
+64 4917 9888 (If calling from outside of NZ)
NZ Poisons Centre : 0800 764 766

Recommended use of the chemical and restrictions on use
Recommended use : Insecticide.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Amber</td>
</tr>
<tr>
<td>Odour</td>
<td>Hydrocarbon like</td>
</tr>
</tbody>
</table>
Classification

This product IS Hazardous according to the Globally Harmonised System for the Classification and Labelling of Chemicals (GHS), as adopted for industrial chemicals in Australia.

This product IS Hazardous according to the Hazardous Substances (Classification) Regulations 2001 in New Zealand

<table>
<thead>
<tr>
<th></th>
<th>GHS</th>
<th>HSNO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>Category 4</td>
<td>6.1D</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>Category 2</td>
<td>6.3B</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Category 2</td>
<td></td>
</tr>
<tr>
<td>Skin Sensitisation</td>
<td>Category 1</td>
<td>6.5B</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>Category 1</td>
<td>9.1</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>Category 1</td>
<td>9.1</td>
</tr>
</tbody>
</table>

**GHS label elements**

Hazard pictograms

Signal word : WARNING

Hazard statements : H302 Harmful if swallowed
                   : H332 Harmful if inhaled
                   : H315 Causes skin irritation
                   : H319 Causes serious eye irritation
                   : H317 May cause an allergic skin reaction
                   : H400 Very toxic to aquatic life
                   : H410 Very toxic to aquatic life with long-lasting effects
Precautionary statements

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.

Prevention:
P261: Avoid breathing dust/fumes/gas/mist/vapours/spray
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280 Wear eye protection/face protection.

Response:
P301+P330+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
P302+P535+P311 IF ON SKIN: Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
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.

Storage:
P403+P235 Store in a well-ventilated place. Keep cool.

Disposal:
Dispose of contents/container in accordance with local regulation.

Australian Dangerous Goods Code and New Zealand NZS 5433:2007:

UN Number: 3082
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN Emulsifiable)
Class and subsidiary risk(s): Class 9 (Miscellaneous Dangerous Goods)
Packing Group: III
Special precautions for user: None
Hazchem Code: 3Z

Note: Australian Special Provision: AU01
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>permethrin (ISO)</td>
<td>52645-53-1</td>
<td>30 - 60</td>
</tr>
<tr>
<td>poly(oxy-1,2-ethanediyl), .alpha.-{nonylphenyl}-.omega.-hydroxy-</td>
<td>9016-45-9</td>
<td>10 - &lt;30</td>
</tr>
<tr>
<td>alkanes, c11-15-iso-</td>
<td>90622-58-5</td>
<td>10 - &lt;30</td>
</tr>
</tbody>
</table>

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES.

General advice : Do not leave the victim unattended.

If inhaled : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

In case of eye contact : case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

If swallowed : Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:
- Carbon dioxide (CO2)
- Carbon monoxide
- Smoke

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information:
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- For safety reasons in case of fire, cans should be stored separately in closed containments.
- Use a water spray to cool fully closed containers.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use appropriate personal protective equipment.

Environmental precautions:
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for collection and cleaning up: Contain spillage, then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: Avoid contact with skin and eyes. For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: No smoking. Keep container tightly closed in a dry and ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid: Keep away from oxidizing agents and strongly acid or alkaline materials. Do not freeze.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
None

Engineering measures: effective ventilation in all processing areas

Personal protective equipment
Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection
Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Eye wash bottle with pure water
Tightly fitting safety goggles
Skin and body protection: Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Protective measures: Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures:
- When using do not eat or drink.
- When using do not smoke.
- Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Colour: Amber [Light]

Odour: Hydrocarbon like

Odour Threshold: No data available

pH: 6 to 8

Melting point/freezing point: No data available

Boiling point: >100 °C

Flash point: 61 °C (Open cup)

Evaporation rate: No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapour pressure: No data available

Relative vapour density: No data available

Relative density: 1.03 to 1.04

Density: No data available

Solubility(ies):
- Water solubility: Emulsifier
- Solubility in other solvents: Not applicable

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: Not determined

Thermal decomposition: No data available
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No decomposition if stored and applied as directed.

Conditions to avoid: no data available.

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon dioxide (CO2), Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Acute toxicity

Product:
Acute oral toxicity: no data available
Acute inhalation toxicity: no data available
Acute dermal toxicity: no data available

Components:
Permethrin
Acute Oral LD50: 430 mg/kg; Species: Rat
Acute Dermal LD50: >2,000 mg/kg Species: Rabbit
Acute Inhalation LC50: >0.685 mg/L; Species: Rat

Skin corrosion/irritation

Product:
May cause skin irritation in susceptible persons.

Components:
Permethrin
Skin irritation: Mild irritant; Species: Rabbit
Serious eye damage/eye irritation

**Product:**
Severely irritating to eyes. Risk of serious damage to eyes.

**Components:**
Permethrin
Eye irritation: Mild irritant; Species: Rabbit

Respiratory or skin sensitisation

**Product:**
May cause sensitisation by skin contact. Repeated exposure may cause skin dryness and cracking.

**Components:**
Permethrin
Sensitisation: Is a sensitiser; Species: Guinea Pig

Mutagenicity

**Product:**
Remarks: No data available

**Components:**
Permethrin
Not considered to be a mutagen based on negative results from a bacterial DNA assay, an Unscheduled DNA Synthesis (UDS) assay in primary rat hepatocytes, and an in vitro chromosome aberration study.

Carcinogenicity

**Product:**
Remarks: No data available

**Components:**
Permethrin
Not considered to be a carcinogen. No carcinogenic effects were found in mice or rats fed Permethrin daily for two years.

Reproductive toxicity

**Product:**
Remarks: No data available

**Components:**
Permethrin
Permethrin did not affect reproduction in studies. No adverse reproductive effect (including indices of fertility, gestation, viability and lactation) was seen with permethrin at dosage levels of 500, 1000 and 2500 mg/kg (diet). Permethrin was neither embryotoxic nor teratogenic in a mouse study at dosage levels of 5-150 mg/kg b.w.
STOT - single exposure
No data available

STOT - repeated exposure

**Product:**
Remarks: No data available

**Components:**
Permethrin
CNS effects.

Aspiration toxicity
No data available

Further information

**Product:**
Remarks: No data available

**Components:**
Permethrin

The Acceptable Daily Intake for Permethrin is set at 0.05 mg/kg/day. The corresponding No-observable-effect-level is set at 5 mg/kg/day.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product: No data available

Permethrin: Fish acute toxicity (*Oncorhynchus mykiss*) 96-hour LC50 = 0.0125 mg/L
Invertebrate acute toxicity (*Daphnia magna*) 48-hour EC50 = 0.00012 mg/L

Persistence and degradability

Product: No data available
Permethrin: Aerobic half-life in soil is 13 days under laboratory conditions, and 42 days in field dissipation studies. Moderately fast photolysis, 1 day DT50. Permethrin was stable to hydrolysis in a solution of pH 7 (31 days DT50).

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>permethrin (ISO)</td>
<td>6.5</td>
<td>-</td>
<td>high</td>
</tr>
</tbody>
</table>
Mobility in soil
No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Ideally, the product should be used for its intended purpose until the container is empty to minimize any waste. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.

Contaminated packaging: Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty container. Do not use this container for any other purpose. Triple or preferably pressure rinse empty containers before disposal or recycling. Add rinsings to spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of water ways, desirable vegetation and tree roots.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: Australian Dangerous Goods Code and New Zealand NZS 5433:2007:
- UN Number: 3082
- UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN Emulsifiable)
- Class and subsidiary risk(s): Class 9 (Miscellaneous Dangerous Goods)
- Packing Group: III
- Special precautions for user: None
- Hazchem Code: 3Z
- Note: Australian Special Provision: AU01

Transportation Regulation: IMDG (Vessel):
- UN Number: 3082
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN Emulsifiable). MARINE POLLUTANT
Class and subsidiary risk(s): Class 9 (Miscellaneous Dangerous Goods)
Packing Group: III
Special precautions for user: None

Transportation Regulation: IATA (Cargo Air):
UN Number: 3082
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN Emulsifiable)
Class and subsidiary risk(s): Class 9 (Miscellaneous Dangerous Goods)
Packing Group: III
Special precautions for user: None

Transportation Regulation: IATA (Passenger Air):
UN Number: 3082
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN Emulsifiable)
Class and subsidiary risk(s): Class 9 (Miscellaneous Dangerous Goods)
Packing Group: III
Special precautions for user: None

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:
Australia on AICS Inventory
New Zealand on NZIoC

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 6
APVMA Approval Number: 48856/12700/0307

For information on the country notification status for other regions please contact the manufacturer’s regulatory group.

SECTION 16. OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this
document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes.
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