



Safety Data Sheet

Product Name **RAID RESIDUAL**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **JOHNSONDIVERSEY NEW ZEALAND LTD**
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Emergency +0800 243 622
Web Site <http://www.johnsondiversey.com/>
Synonym(s) ALL PACK SIZES
Use(s) INSECTICIDE • PESTICIDE
SDS Date 16 Oct 2008

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES [CLASSIFICATION] REGULATIONS 2001

HSNO CLASSIFICATION

6.5A Substances that are respiratory sensitisers.
6.5B Substances that are contact sensitisers.
9.1A Substances that are very ecotoxic in the aquatic environment.
9.4A Substances that are very ecotoxic to terrestrial invertebrates.
2.1.2A(1) Flammable aerosols.

HAZARD STATEMENT

H222 Extremely flammable aerosol.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H441 Very toxic to terrestrial invertebrates.

PREVENTION STATEMENT

P103 Read label before use (applies only where the substance is available to the general public).
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment. This statement does not apply where this is the intended use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.

RESPONSE STATEMENT

P321 Specific treatment is advised - see first aid instructions.
P363 Wash contaminated clothing before reuse.

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P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

STORAGE STATEMENT

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

DISPOSAL STATEMENT

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA

UN No.	1950	DG Class	2.1	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	2Y	EPG	2D1

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
PERMETHRIN	52645-53-1	0.36%
HYDROCARBON PROPELLANT	Not Available	30-60%
ISOPARAFFINIC HYDROCARBON	Not Available	10-30%
CORROSION INHIBITOR(S)	Not Available	<1%
EMULSIFIER	Not Available	<1%
PERFUME	Not Available	<1%
TETRAMETHRIN	7696-12-0	0.19%

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.
Advice to Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability	Highly flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Aerosol cans may explode when heated above 50°C.
Fire and Explosion	Highly flammable - explosive vapour. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	2Y

6. ACCIDENTAL RELEASE MEASURES

Spillage If aerosol can damaged/leaking, ventilate and clear area of all unprotected personnel. Wear splash-proof goggles, PVC/rubber gloves, a Type A-Class P1 (Organic vapour and Particulate) respirator (where an inhalation risk exists) and coveralls. Collect and allow to discharge outdoors. Absorb residues with sand or similar and place in clean containers for disposal.

7. STORAGE AND HANDLING

Storage Store in cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis, direct sunlight, heat or ignition sources, foodstuffs, out of direct sunlight and out of the reach of children. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate fire protection. Do not allow product to freeze.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds TETRAMETHRIN
ES-STEL : 10 mg/m³ - Pyrethrins (ACGIH)
ES-TWA: 5 mg/m³ - Pyrethrins (ACGIH)

Engineering Controls Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE Personal Protective Equipment is not required under normal conditions of use. Where an inhalation risk exists, wear: a Type A-Class P1 (Organic gases/vapours and Particulate) respirator. With prolonged use, wear: splash-proof goggles, PVC or rubber gloves and safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	CLEAR LIQUID (AEROSOL DISPENSED)	Solubility (Water)	SLIGHTLY SOLUBLE
Odour:	MILD ODOUR	Specific Gravity	0.7
pH	NOT AVAILABLE	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	HIGHLY FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	< 20°C (Propellant)
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE		

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources.

Decomposition May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

Polymerization Polymerization is not expected to occur.

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11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low to moderate toxicity. This product has the potential to cause adverse health effects with chronic or high level exposure. Use safe work practices (ie. do not overspray or contaminate non target areas) to avoid eye-skin contact and vapour inhalation.
Eye	Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. Prolonged contact may result in corneal burns and possible permanent damage.
Inhalation	Low to moderate irritant - low toxicity. Over exposure may result in mucous membrane irritation of the respiratory tract and sneezing. At high levels, pyrethrins may cause breathing difficulties (wheezing) and sensitisation with asthma like symptoms.
Skin	Irritant. Contact may result in irritation, redness, rash and dermatitis. Potential sensitising agent. May be absorbed through skin with toxic effects.
Ingestion	Ingestion is considered unlikely due to product form.
Toxicity Data	PERMETHRIN (52645-53-1) LC50 (Inhalation): 485 mg/m3 (rat) LD50 (Ingestion): 383 mg/kg (rat) LD50 (Intraperitoneal): 429 mg/kg (mouse) LD50 (Intravenous): 31 mg/kg (mouse) LD50 (Skin): 1750 mg/kg (rat) LD50 (Subcutaneous): 6600 mg/kg (rat) TETRAMETHRIN (7696-12-0) LC50 (Inhalation): 2 g/m3 (mouse) LD50 (Ingestion): 1000 mg/kg (mouse) LD50 (Intraperitoneal): 527 mg/kg (mouse) LD50 (Intravenous): 3500 ug/kg (rat) LD50 (Skin): 2500 ug/kg (rat) LD50 (Subcutaneous): 1950 mg/kg (mouse)

12. ECOLOGICAL INFORMATION

Environment	Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	For small amounts absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer for additional information.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA

Shipping Name	AEROSOLS				
UN No.	1950	DG Class	2.1	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	2Y	EPG	2D1
IATA					
Shipping Name	AEROSOLS				
UN No.	1950	DG Class	2.1	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated				

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IMDG			
Shipping Name	AEROSOLS		
UN No.	1950	DG Class	2.1
Packing Group	None Allocated	Subsidiary Risk(s)	None Allocated

15. REGULATORY INFORMATION

Approval Code	HSR000259
Group Name	Flammable aerosol containing 1 - 3.6 g/litre permethrin and 1.98 - 4 g/litre tetramethrin
HSNO Controls	Refer to the ERMA website for more information: www.ermanz.govt.nz

16. OTHER INFORMATION

Additional Information SYNERGISM - ANTAGONISM: Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

AEROSOL CANS may explode at temperatures approaching 50°C.

ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m³ - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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End of Report

CHEM ALERT

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