



## Safety Data Sheet

**Product Name** RAID FAST KILL/LOW IRRITANT

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### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Supplier Name** JOHNSONDIVERSEY NEW ZEALAND LTD  
**Address** 3 Diversey Lane, Wiri, Manukau, NEW ZEALAND, 2025  
**Telephone** +64 9 278 2119  
**Fax** +64 9 278 4286  
**Emergency** +0800 243 622  
**Web Site** <http://www.johnsondiversey.com/>  
**Synonym(s)** ALL PACK SIZES  
**Use(s)** FLY SPRAY • INSECTICIDE  
**SDS Date** 16 Oct 2008

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### 2. HAZARDS IDENTIFICATION

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

#### HSNO CLASSIFICATION

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.  
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.  
P273 Avoid release to the environment. This statement does not apply where this is the intended use.

#### RESPONSE STATEMENT

P391 Collect spillage.

#### 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.

**PRODUCT NAME RAID FAST KILL/LOW IRRITANT****CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA**

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

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>CAS No.</b>	<b>Content</b>
ALLETHRIN	584-79-2	<10%
HYDROCARBON PROPELLANT	Not Available	>60%
ALIPHATIC HYDROCARBON(S)	6943-35-9	<10%
PHENOTHRIN	26002-80-2	<10%
TETRAMETHRIN	7696-12-0	<10%
PERFUME	Not Available	Not Available

**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.

**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**

CHEM ALERT

## PRODUCT NAME **RAID FAST KILL/LOW IRRITANT**

### Exposure Stds TETRAMETHRIN

ES-STEL : 10 mg/m<sup>3</sup> - Pyrethrins (ACGIH)

ES-TWA: 5 mg/m<sup>3</sup> - 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	CLEAR LIQUID (AEROSOL DISPENSED)	<b>Solubility (Water)</b>	DISPERSIBLE
<b>Odour:</b>	MILD ODOUR	<b>Specific Gravity</b>	0.76
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	HIGHLY FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	< 20°C (Propellant)
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE		

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## 10. STABILITY AND REACTIVITY

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**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

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**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**  
ALLETHRIN (584-79-2)  
LC50 (Inhalation): > 2 g/m<sup>3</sup> (mouse)  
LCLo (Inhalation): 13800 mg/m<sup>3</sup>/4 hour (rat)  
LD50 (Ingestion): 370 mg/kg (mouse)  
LD50 (Intraperitoneal): 38 mg/kg (mouse)  
LD50 (Skin): 1200 mg/kg (mouse)  
LDLo (Intravenous): 4 mg/kg (rat)  
TDLo (Ingestion): 21 g/kg/12 weeks intermittently (rat)  
PHENOTHRIN (26002-80-2)  
LD50 (Ingestion): 10 g/kg (mouse)  
LD50 (Intraperitoneal): > 5 g/kg (mouse)  
LD50 (Intravenous): 354 mg/kg (mouse)  
LD50 (Skin): > 5 g/kg (mouse)

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LD50 (Subcutaneous): > 5 g/kg (mouse)  
TETRAMETHRIN (7696-12-0)  
LC50 (Inhalation): 2 g/m<sup>3</sup> (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** The manufacturer reports that this product may be toxic to aquatic life.

## 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

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

### IATA

<b>Shipping Name</b>	AEROSOLS				
<b>UN No.</b>	1950	<b>DG Class</b>	2.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated				

### IMDG

<b>Shipping Name</b>	AEROSOLS				
<b>UN No.</b>	1950	<b>DG Class</b>	2.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated				

## 15. REGULATORY INFORMATION

**Approval Code** HSR000323

**Group Name** Flammable Aerosol containing 0.9-1.0 g d-allethrin; 0.9-1.0g d-phenothrin and 3.6g tetramethrin

**HSNO Controls** Refer to the ERMA website for more information: [www.ermanz.govt.nz](http://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.

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EINECS - European INventory of Existing Commercial chemical Substances.  
IARC - International Agency for Research on Cancer.  
M - moles per litre, a unit of concentration.  
mg/m<sup>3</sup> - 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**