

Material Safety Data Sheet

PRODUCT NAME **RAID COMMERCIAL INSECTICIDE RESIDUAL SURFACE SPRAY**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name JOHNSONDIVERSEY AUSTRALIA PTY LTD
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Synonym(s) 739217 RAID RESIDUAL SURFACE SPRAY 12 X 450G
Use(s) INSECTICIDE, PESTICIDE

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Not Available	>60%	64742-48-9
LIQUEFIED PETROLEUM GAS (LPG)	C3H8/C3H6/C4H10/C4H8	30%	68476-85-7
PERMETHRIN	C21-H20-Cl2-O3	0.36%	52645-53-1
CORROSION INHIBITOR(S)	Not Available	<1%	Not Available
EMULSIFIER	Not Available	<1%	Not Available
PERFUME	Not Available	<1%	Not Available
TETRAMETHRIN	C19-H25-N-O4	0.19%	7696-12-0

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Inhalation If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

Skin Gently flush affected areas with water. Seek medical attention if irritation develops.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

Advice to Doctor Treat symptomatically

First Aid Facilities Eye wash facilities and safety shower should be available.

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.
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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 (eg. if container is damaged).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	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.
Exposure Standards	HYDROTREATED HEAVY NAPHTHA (PETROLEUM) (64742-48-9) ES-STEL : 400 ppm (1800 mg/m3) LIQUEFIED PETROLEUM GAS (LPG) (68476-85-7) ES-TWA: 1000 ppm (1800 mg/m3) WES-TWA: 1000 ppm (1800 mg/m3) TETRAMETHRIN (7696-12-0) ES-STEL : 10 mg/m3 - Pyrethrins (ACGIH) ES-TWA: 5 mg/m3 - Pyrethrins (ACGIH)
PPE	With prolonged use, wear safety glasses, splash-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Type A-Class P1 (Organic vapour and Particulate) Respirator.

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:	HYDROCARBON
Vapour Pressure:	NOT AVAILABLE	Flammability:	PROPELLANT
Vapour Density:	NOT AVAILABLE	Flash Point:	HIGHLY FLAMMABLE
Boiling Point:	NOT AVAILABLE	Upper Explosion Limit:	< 20 C (Propellant)
Melting Point:	NOT AVAILABLE	Lower Explosion Limit:	NOT AVAILABLE
Evaporation Rate:	NOT AVAILABLE	Autoignition Temperature:	NOT AVAILABLE
Exposure Standard:	300 ppm Manufacturer		

10. STABILITY AND REACTIVITY

Reactivity	Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), strong alkalis (eg. hydroxides), heat and ignition sources.
Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	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	Contact may result in lacrimation, irritation, pain, redness and conjunctivitis. Prolonged contact - corneal burns and possible permanent damage.
Inhalation	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	Prolonged contact may result in irritation, redness, rash, dermatitis and sensitisation. Toxic effects may result from skin absorption.
Ingestion	Due to product form (aerosol container) ingestion is considered highly unlikely.
Toxicity Data	PERMETHRIN (52645-53-1) LC50 (Inhalation): 485 mg/m ³ (rat) LD50 (Ingestion): 383 mg/kg (rat) LD50 (Skin): 1750 mg/kg (rat) TETRAMETHRIN (7696-12-0) LC50 (Inhalation): 2 g/m ³ (mouse) LD50 (Ingestion): 1000 mg/kg (mouse) LD50 (Skin): 2500 ug/kg (rat)

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

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

15. REGULATORY INFORMATION

Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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.
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AEROSOL CANS may explode at temperatures approaching 50 C.

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

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

M - moles per litre, a unit of concentration.

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IARC - International Agency for Research on Cancer.

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.

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.

Report Status

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

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 MSDS, 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 MSDS.

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End of Report