



SAFETY DATA SHEET

Product Name **RAID COMMERCIAL INSECTICIDE ODOURLESS FLY AND INSECT KILLER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name DIVERSEY AUSTRALIA PTY. LIMITED
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Web Site www.diversey.com
Synonym(s) 739400 RAID ODOURLESS FLY AND INSECT KILLER 12 X 400G
Use(s) AEROSOL DISPENSED · FLY SPRAY · INSECTICIDE
SDS Date 01 June 2012

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

R12 Extremely Flammable.

SAFETY PHRASES

S7/9 Keep container tightly closed and in a well ventilated place.
S16 Keep away from sources of ignition - No smoking.
S43 In case of fire use only the recommended extinguishing agents.

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

UN Number 1950 **DG Division** 2.1
Packing Group None Allocated **Subsidiary Risk(s)** None Allocated
Hazchem Code 2YE

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content
LIQUEFIED PETROLEUM GAS (LPG)	CAS: 68476-85-7 EC: 270-704-2	F+;R12	30%
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	CAS: 64742-48-9 EC: 265-150-3	Carc.;R45 Muta.;R46 Xn;R65	1 - 7%
PERMETHRIN	CAS: 52645-53-1 EC: 258-067-9	Xn;R20/22 Xn;R43 N;R50/53	<0.2%
SODIUM NITRITE	CAS: 7632-00-0 EC: 231-555-9	T;R25 O;R8 N;R50	<0.2%
TETRAMETHRIN	CAS: 7696-12-0 EC: 231-711-6	Not Available	<0.5%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

4. FIRST AID MEASURES

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Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, 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 a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). 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 should be provided.

5. FIRE FIGHTING MEASURES

Flammability	Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. 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	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment 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.
Hazchem Code	2YE 2 Water Fog (or fine water spray if fog unavailable) Y Self Contained Breathing apparatus and protective gloves. E Evacuation of people in the vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

Spillage	If aerosol can damaged or leaking, clear area of all unprotected personnel and ventilate. Use personal protective equipment. Clear area of all unprotected personnel. Collect and allow to discharge outdoors. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.
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7. STORAGE AND HANDLING

Storage	Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis, heat or ignition sources and foodstuffs. 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 systems.
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 Standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Liquefied petroleum gas (LPG)	SWA (AUS)	1000	1800	1000	1800
Mineral Oil Mist	SWA (AUS)	--	5	--	--

Biological Limits	No biological limit allocated.
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Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, 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

Eye / Face With prolonged use, wear safety glasses and splash-proof goggles.
Hands With prolonged use, wear PVC or rubber gloves.
Body Not required under normal conditions of use.
Respiratory Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance CLEAR LIQUID (AEROSOL DISPENSED)
Odour ODOURLESS
Flammability HIGHLY FLAMMABLE
Flash point < 20°C (PROPELLANT)
Boiling point NOT AVAILABLE
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE
pH NOT AVAILABLE
Vapour density NOT AVAILABLE
Specific gravity 0.80 - 0.82
Solubility (water) DISPERSIBLE
Vapour pressure NOT AVAILABLE
Upper explosion limit NOT RELEVANT
Lower explosion limit NOT RELEVANT
Autoignition temperature NOT AVAILABLE
Decomposition temperature NOT AVAILABLE
Viscosity NOT AVAILABLE
Partition coefficient NOT AVAILABLE
% Volatiles 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), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources.
Hazardous Decomposition Products May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
Hazardous Reactions Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation.
Eye Contact may result in irritation, lacrimation, pain and redness.
Inhalation Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.
Skin Contact may result in irritation, redness, rash and dermatitis. May cause sensitisation by skin contact.
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)

PERMETHRIN (52645-53-1)	
LD50 (subcutaneous)	6600 mg/kg (rat)
SODIUM NITRITE (7632-00-0)	
LC50 (inhalation)	5.5 mg/m ³ /4 hours (rat)
LD50 (ingestion)	180 mg/kg (rat)
LD50 (intravenous)	65 mg/kg (rat)
LDLo (ingestion)	22 mg/kg (child)
LDLo (intraperitoneal)	158 mg/kg (mouse)
LDLo (intravenous)	15 mg/kg (dog)
LDLo (subcutaneous)	35 mg/kg (cat)
TCLo (inhalation)	0.125 mg/m ³ /22 weeks intermittently (rat)
TDL0 (ingestion)	1.7 mg/kg/70 minutes (man)
TDL0 (intraperitoneal)	400 mg/kg (pregnant rat)
TDL0 (intravenous)	36 mg/kg (pregnant cattle)
TETRAMETHRIN (7696-12-0)	
LC50 (inhalation)	2 g/m ³ (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.

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 BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	1950	1950	1950
Proper Shipping Name		AEROSOLS	
DG Class/ Division	2.1	2.1	2.1
Subsidiary Risk(s)	None Allocated	None Allocated	None Allocated
Packing Group	None Allocated	None Allocated	None Allocated
GTEPG	2D1		
Hazchem Code	2YE		

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 Medicines and Poisons (SUSMP)

Inventory Listing(s) **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**
All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional Information Contains < 0.1 % Benzene.

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.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this ChemAlert 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 ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per Cubic Metre
PEL	Permissible Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TLV	Threshold Limit Value
TWA/OEL	Time Weighted Average or Occupational Exposure Limit

Revision History

Revision	Description
1.0	Initial SDS Creation

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.

Product Name **RAID COMMERCIAL INSECTICIDE ODOURLESS FLY AND INSECT KILLER**

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End of SDS