



SAFETY DATA SHEET

Product Name **LEAK DETECTOR**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **CRC INDUSTRIES (AUST) PTY LIMITED**
Address 9 Gladstone Road , Castle Hill , NSW, AUSTRALIA, 2154
Telephone (02) 9849 6700
Fax (02) 9680 4914
Emergency 13 11 26 (PIC)
Email info@crcind.com.au
Web Site http://www.crcindustries.com.au
Synonym(s) 14503 - PRODUCT CODE
Use(s) LEAK DETECTION
SDS Date 30 Aug 2011

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

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

UN No. 1950 **DG Class** 2.2 **Subsidiary Risk(s)** None Allocated
Packing Group None Allocated **Hazchem Code** 2YE

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
DIFLUOROETHANE	C2-H4-F2	75-37-6	3-8%
ETHYLENE GLYCOL MONOBUTYL ETHER	C6-H14-O2	111-76-2	2-5%
ETHANOLAMINE	C2-H7-N-O	141-43-5	<1%
WATER	H2O	7732-18-5	85-95%

4. FIRST AID MEASURES

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.

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 available.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Aerosol may explode at temperatures exceeding 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	Prevent contamination of drains or waterways.
Hazchem Code	2YE

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.
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

Ingredient	Reference	TWA		STEL	
2-Butoxyethanol (EGBE)	SWA (AUS)	20 ppm	96.9 mg/m ³	50 ppm	242 mg/m ³
Ethanolamine	SWA (AUS)	3 ppm	7.5 mg/m ³	6 ppm	15 mg/m ³

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas.

PPE Wear neoprene gloves.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR LIQUID (AEROSOL DISPENSED)	Solubility (water)	SOLUBLE
Odour	ODOURLESS	Specific Gravity	NOT AVAILABLE
pH	10.3	% Volatiles	> 60 % (Water)
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT AVAILABLE
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE		
Autoignition Temperature	NOT AVAILABLE	Decomposition Temperature	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE	Viscosity	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	Low toxicity. This product is not anticipated to cause adverse health effects with normal industrial use. Chronic effects are not anticipated.
Eye	Low irritant. Contact may result in irritation, lacrimation and redness.
Inhalation	Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.
Skin	Non - low irritant. Prolonged or repeated contact may result in mild irritation. Some individuals may experience allergic reaction.
Ingestion	Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.
Toxicity Data	<p>DIFLUOROETHANE (75-37-6)</p> <p>LC50 (Inhalation): 977 mg/m³/2 hours (mouse)</p> <p>LCLo (Inhalation): 64000 ppm/4 hours (rat)</p> <p>LDLo (Ingestion): >1500 mg/kg (rat)</p> <p>TCLo (Inhalation): 150000 ppm/5M (rat)</p> <p>ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)</p> <p>LC50 (Inhalation): 700 ppm (mouse)</p> <p>LD50 (Ingestion): 300 mg/kg (rabbit)</p> <p>LD50 (Skin): 230 mg/kg (guinea pig)</p> <p>TCLo (Inhalation): 100 ppm (human)</p> <p>TDLo (Ingestion): 7813 uL/kg (woman)</p> <p>ETHANOLAMINE (141-43-5)</p> <p>LD50 (Ingestion): 620 mg/kg (guinea pig)</p> <p>LD50 (Intramuscular): 1750 mg/kg (rat)</p> <p>LD50 (Intraperitoneal): 50 mg/kg (mouse)</p> <p>LD50 (Intravenous): 225 mg/kg (rat)</p> <p>LD50 (Skin): 1 mL/kg (rabbit)</p> <p>LD50 (Subcutaneous): 1500 mg/kg (rat)</p>

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	Dispose of to landfill. Do not puncture or incinerate 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

Shipping Name	AEROSOLS				
UN No.	1950	DG Class	2.2	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	2YE	GTEPG	2D1

IATA

Shipping Name	AEROSOLS				
UN No.	1950	DG Class	2.2	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated				

IMDG

Shipping Name	AEROSOLS				
UN No.	1950	DG Class	2.2	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated				

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 AEROSOL CANS may explode at temperatures approaching 50°C.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indice(s).

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

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

IARC - International Agency for Research on Cancer.

mg/m³ - Milligrams per Cubic Metre.

NOS - Not Otherwise Specified.

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.

STEL - Short Term Exposure Limit.

SWA - Safe Work Australia.

TWA - Time Weighted Average.

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.

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.

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').

Product Name**LEAK DETECTOR**

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.

Prepared By

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

SDS Date 30 Aug 2011

End of Report