

Infosafe No™ HX0Q5	Issue Date :June 2007	ISSUED by RITTCO
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 Product Name : **RAIN-X RAIN REPELLENT**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	RAIN-X RAIN REPELLENT		
Product Code	BCRX11112, RX11212, RX11413-6P		
Company Name	RITTCO DISTRIBUTING		
Address	PO Box 23 Concord NSW 2137 Australia		
Emergency Tel.	13 11 16		
Recommended Use	WINDSCREEN CLEANER		
Other Names	<u>Name</u>	<u>Product Code</u>	
	RAIN-X RAIN REPELLENT		

2. HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	R11 Highly flammable. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness
Safety Phrase(s)	S16 Keep away from sources of ignition - No smoking. S2 Keep out of reach of children. S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition	Ingredient	Formula	
	ISOPROPYL ALCOHOL	C3-H8-O	
	SULPHURIC ACID	H2-S-O4	
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Isopropyl alcohol	67-63-0	>90 %
	Sulphuric acid	7664-93-9	0.1-1 %

4. FIRST AID MEASURES

Inhalation	If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
Ingestion	DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.
Skin	Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
Eye	Flush gently with running water for 15 minutes.
Advice to Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Specific Hazards	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.
Hazchem Code	3[Y]E

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6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, neoprene/nitrile gloves, a Type A (Organic vapour) respirator (where inhalation risk exists), coveralls, an apron and boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar and place in clean, sealed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe 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.

Conditions for Safe Storage Store in cool, dry, well ventilated area, removed from oxidising agents, acids, active metals, direct sunlight, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should be banded and have appropriate ventilation systems. Store at a temperature between 0°C and 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Ingredient	Reference	TWA		STEL	
			ppm	mg/m ³	ppm	mg/m ³
	ISOPROPYL ALCOHOL	NOHSC (AUS)	400	983	500	1230
	SULPHURIC ACID	NOHSC (AUS)	--	1	--	3
Biological Limit Values	No biological limit allocated.					
Engineering Controls	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof 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. Maintain vapour levels below the recommended exposure standard.					
Personal Protective Equipment	Wear splash-proof goggles and neoprene or nitrile gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear an Air-line respirator or self Contained Breathing Apparatus (SCBA). If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) Respirator.					

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odour	Alcoholic odour
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Miscible
Specific Gravity	Not available
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Volatile Component	Not available
Flash Point	12°C (cc)
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

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Auto-Ignition	etc. when handling. Earth containers when dispensing fluids.
Temperature	Not available
Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available

10. STABILITY AND REACTIVITY

Incompatible Materials	Incompatible with oxidising agents (eg. peroxides), acids (eg. sulphuric acid), active metals (eg. aluminium, potassium, magnesium), and heat and ignition sources.
Hazardous Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Toxicity Data: ISOPROPYL ALCOHOL (67-63-0) Carcinogenicity: Not classifiable as to its carcinogenicity (IARC Group 3) LC50 (Inhalation): 16000 ppm/8 hours 16000/8 hours (rat) LD50 (Ingestion): 3600 mg/kg (mouse) LD50 (Skin): 12,800 mg/kg (rabbit)
Health Hazard	SULPHURIC ACID (7664-93-9) LC50 (Inhalation): 18 mg/m ³ (guinea pig) LD50 (Ingestion): 2140 mg/kg (rat) Use safe work practices to avoid eye or skin contact and vapour generation-inhalation. Over exposure at very high levels may result in liver and kidney damage. May cause skin sensitisation, although rare.
Inhalation	Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing, and headache. Over exposure may result in nausea, dizziness and drowsiness.
Ingestion	Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness, drowsiness and unconsciousness with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema.
Skin	Prolonged contact may result in skin rash, drying and defatting of the skin which may result in dermatitis. Potential sensitising agent.
Eye	Contact may result in lacrimation, irritation, pain, redness and conjunctivitis. Prolonged contact - corneal burns and possible permanent damage.

12. ECOLOGICAL INFORMATION

Ecological Information	Environment: SOIL: Isopropanol will both evaporate quickly and leach into the ground due to its high vapour pressure and low adsorption to soil. If soil degradation is not rapid, it is apt to leach into the groundwater. WATER: Will volatilise when released into water (estimated half-life ~5.4 days) and may biodegrade. ATMOSPHERE: Photodegradation (estimated half-life of one to several days) will occur. Due to its solubility in water, rainout may be significant.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
Local Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Transport Information	CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE Shipping Name: FLAMMABLE LIQUID, N.O.S. UN No.: 1993
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DG Class: 3
Subsidiary Risk(s): None Allocated
Pkg Group: II
Hazchem Code: 3[Y]E
EPG: 3A1

IATA:
Shipping Name: FLAMMABLE LIQUID, N.O.S.
UN No.: 1993
DG Class: 3
Subsidiary Risk(s): None Allocated
Pkg Group: II

IMDG:
Shipping Name: FLAMMABLE LIQUID, N.O.S.
UN No.: 1993
DG Class: 3
Subsidiary Risk(s): None Allocated
Pkg Group: II
1993

U.N. Number

Proper Shipping

Name

DG Class

Sub.Risk

Hazchem Code

Packaging Method

Packing Group

EPG Number

IERG Number

FLAMMABLE LIQUID, N.O.S.

3

None Allocated

3[Y]E

3.8.3RT1

II

3A1

14

15. REGULATORY INFORMATION

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).

Poisons Schedule

Not Scheduled

Hazard Category

Irritant, Highly Flammable

AICS (Australia)

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Other Information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a

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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:

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.

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.

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