

Infosafe No™ HXOQ2	Issue Date : June 2007	ISSUED by RITTCO	CS: 1.4.22
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 Product Name : **RAIN-X ANTI-FOG**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	RAIN-X ANTI-FOG		
Product Code	BCAF21112, AF21212		
Company Name	RITTCO DISTRIBUTING		
Address	PO Box 23 Concord NSW 2137 Australia		
Emergency Tel.	13 11 16		
Recommended Use	ANTIFOGGING AGENT · INTERIOR GLASS ANTI-FOG TREATMENT		
Other Names	<u>Name</u>	<u>Product Code</u>	
	RAIN X ANTI FOG		

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. S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). S7 Keep container tightly closed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition	Ingredient	Formula		
	ETHANOL	C2-H6-O		
	ISOPROPYL ALCOHOL	C3-H8-O		
	SURFACTANT(S)	Not Available		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	
	Ethanol	64-17-5	70-99 %	
	Isopropyl alcohol	67-63-0	<15 %	
	SURFACTANT(S)	Not Available	1-5 %	

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	Gently flush affected areas with water. Seek medical attention if irritation develops.
Eye	Flush gently with running water for 15 minutes.
First Aid Facilities	Eye wash facilities and safety shower should be available.
Advice to Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water fog or foam. 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

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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 2[Y]E

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, nitrile gloves, a Type A (Organic vapour) respirator and coveralls. Ventilate and clear area of all unprotected personnel. Eliminate potential ignition sources. Absorb spill with sand or similar, collect and place in sealable 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, 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. Also store removed from aldehydes and halogens.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
	ETHANOL			--	--
	NOHSC (AUS)	1000	1880		
	ISOPROPYL ALCOHOL			500	1230
	NOHSC (AUS)	400	983		
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).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Alcohol odour
Melting Point	Not available
Boiling Point	82.2°C
Solubility in Water	Soluble
Specific Gravity	0.79
pH Value	Not available
Vapour Pressure	33 mm Hg @ 25°C
Vapour Density (Air=1)	> 1 (Air = 1)
Evaporation Rate	Not available
Volatile Component	98 %

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Flash Point	18.3°C (oc)
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. Earth containers when dispensing fluids.
Auto-Ignition Temperature	Not available
Explosion Limit - Upper	12.7 %
Explosion Limit - Lower	2 %

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Toxicity Data: ETHANOL (64-17-5) LC50 (Inhalation): 2000 ppm/10 hours (rat) LD50 (Ingestion): 3450 mg/kg (mouse)
	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	This product has the potential to cause adverse health effects with chronic over exposure. Use safe work practices to avoid eye or skin contact and over exposure via inhalation. Chronic ingestion may result in cirrhosis of the liver. Over exposure may cause central nervous system depression.
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 gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness and drowsiness with large doses. Liver damage may occur with high level or chronic ingestion.
Skin	Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.
Eye	Exposure may result in lacrimation, irritation, pain and redness.

12. ECOLOGICAL INFORMATION

Ecological Information	Environment: If spilled on soil, ethanol will either evaporate or leach into the ground due to the relatively high vapour pressure and low adsorption in soil. It will biodegrade, probably to acetic acid and formaldehyde. Ethanol will volatilise from water and biodegrade, and is not expected to bioconcentrate. It will photodegrade in air with a half-life ranging from hours (polluted air) to days (clean air).
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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

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Transport Information	CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE
U.N. Number	Shipping Name: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 1170
Proper Shipping Name	ETHANOL (ETHYL ALCOHOL)
DG Class	3
Sub.Risk	None Allocated
Hazchem Code	2[Y]E
Packaging Method	3.8.3RT1
Packing Group	II
EPG Number	3A1
IERG Number	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.

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.



Material Safety Data Sheet

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