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Material Safety Data Sheet

SECTION 1	IDENTIFICATION	AIRX OPEN	
Product Name: AIRX OPEN (Bio-enzymatic drain opener)			
UN Number	None allocated	HAZCHEM CODE	None allocated as a guide recommended 2[T] be considered.
Dangerous Goods Class	Not a Dangerous Good using the criteria of the ADG Code	Hazard Classification	Classified as Hazardous according to the criteria of NOHSC.
Packaging Group	None allocated use PG III as a guide.	Poisons Schedule	None allocated using the criteria of the SUSDP (Australia)
Uses	Cleaning drains by using viable bacteria		
SECTION 2	COMPOSITION		
CHEMICAL DESCRIPTION	CAS No.	Proportion %	
Viable bio-cultures (Non-pathogenic)	None	<10%	
Ethoxylated alcohol	78330-21-9	<10%	
Dipropylene glycol methyl ether	34590-94-8	<10%	
Perfume / fragrance	Proprietary	<2%	
Deionised water	7732-18-5	Balance	
SECTION 3	HAZARDS IDENTIFICATION		
Most Important Hazards	Low toxicity – low irritant. This product contains live micro-organisms , which are only anticipated to present a hazard with direct eye contact, prolonged skin contact or contact with broken skin. No chronic effects are anticipated with normal use.		
Adverse human health effects	Eyes: May cause irritation by direct exposure. Over exposure may result in lacrymation, pain, redness, blurred vision and conjunctivitis. Inhalation: Low irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.		
	Skin: Irritant: Prolonged and repeated contact may result in irritation, skin rash and dermatitis. Infection may occur through contact with damaged skin. Ingestion: Low toxicity. With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation.		
Environmental effects	Will react with fats to produce environmentally friendly by-products. AIRX OPEN is not expected to cause adverse effects on animal or plant life if released to the environment in small quantities.		
Food chain	Not expected to bioaccumulate.		
Physical and Chemical Hazards			
Further hazards	None known		
Classification / Specific hazards	Product is not considered a Dangerous Good based on all information available		

SECTION 4	FIRST AID MEASURES
Contact with skin	Wash thoroughly with soap and water after handling product or if splashed on skin. Remove any contaminated clothing and wash before re-use.
Contact with eyes	Flush immediately with water for 15 minutes, then seek medical advice
Inhalation	Remove person to fresh air, treat symptomatically. Further observe victim, if any unusual symptoms develop, seek medical advice.
Other Information	This product contains enzymes which are non pathogenic, but may cause infection when in contact with open wounds.
	These organisms are susceptible to many commonly used antibiotics.
SECTION 5	FIRE - FIGHTING MEASURES
Extinguishing media	Product is not flammable but is compatible with water, CO ₂ , dry chemical and foam in the event of fire in adjoining storage.
- Not suitable	None Known
Specific Hazards	None known
SECTION 6	ACCIDENTAL RELEASE MEASURES
Personal Precautions	Only standard work clothes required under normal conditions of use.
	It is always advisable to wear safety glasses or chemical goggles when handling liquids to avoid splashes into eyes. Use of PVC or rubber gloves or gauntlets is recommended.
Environmental Precautions	Where possible, flush down drain to waste treatment sewer. Small spills, use chemical absorbent and sweep up.
Methods for cleaning up	As above.
SECTION 7	HANDLING AND STORAGE
Handling	
Technical measures	In poorly ventilated areas, mechanical exhaust recommended
Storage	
Technical measures	Store in a cool dry place, avoid exposure to temperatures above 46 °C and keep from freezing.
Storage conditions	Keep out of direct sunlight, away from oxidizing agents and food-stuffs
Incompatible products	Strong oxidizing agents
Packaging	
Packaging Materials	
- Recommended	Plastics such as PVC, PET, Polypropylene, Polyethylene or glass
- Not Suitable	Metal containers, particularly unlined.
SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering measures	Normal ventilation or in poorly ventilated areas, mechanical ventilation
Personal protective equipment	
Hand protection	Rubber or PVC gloves or gauntlets
Eye protection	Safety glasses or goggles
Skin and body protection	Normal working apparel
SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
Appearance	
Physical state	Blue coloured liquid
Form	Liquid
Colour	Dark blue opaque

Odour	Characteristic
pH	6.5 [Typical]
Specific temperatures	
Freezing	~0 °C (will damage cultures)
Boiling	~100 °C (IBP based on water).
Flammability characteristics	
Flash point	None detected
Oxidizing properties	None known
Specific gravity	0.98 – 1.00 g cm ⁻³
Solubility	
In water	Completely miscible
In organic solvents	Not compatible in hydrocarbon solvents
SECTION 10	STABILITY AND REACTIVITY
Stability	Stable
Hazardous reactions	None known
Materials to avoid	Acids, alkalis and oxidizing agents
Hazardous decomposition products	If heated to decomposition Carbon monoxide and other organic gases may occur during incomplete combustion of residues.
SECTION 11	TOXICOLOGICAL INFORMATION
Acute toxicity	None has been identified
Local effects	Keep clear of open wounds as enzymes may cause local infection.
Sensitisation	None known. No cases reported.
SECTION 12	ECOLOGICAL INFORMATION
Mobility	Product is a low viscosity, water based fluid and is very mobile and likely to soak readily into soil layers..
Biodegradability	Very high, the product is enzyme based and will rapidly biodegrade once in the local environment
Ecotoxicity	Will add to local bio-activity for the short term
SECTION 13	DISPOSAL CONSIDERATIONS
Waste from residues	In normal use there should be no wastes however if there are some wastes these can be flushed to sewer or waste treatment
Contaminated Packaging	Rinse thoroughly and flush residues to treatment system, empty containers may then be dispatched to an approved solid waste treatment plant. Or waste transfer station
SECTION 14	TRANSPORT INFORMATION
UN Number	Not applicable – none allocated
Hazchem	None allocated, recommended that 2[T] could be considered
Dangerous Goods Class and Subsidiary Risk	Not a Dangerous Good using the criteria of the Australian Dangerous Goods Code for the transport of Dangerous Goods by Road and Rail

Poison Schedule	A Poison Schedule number has not been allocated to AIRX OPEN using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Packaging Group	None allocated, PG III can be used as a guide if required.
SECTION 15	REGULATORY INFORMATION
Labelling	
- Risk Phrases	Not applicable
- Safety Phrases	S2; Keep out of the reach of children
	S3; keep in a cool place
	S24/25; Avoid contact with skin and eyes.
Classifications / Symbols	None allocated, not a Dangerous Good
Notes	The effects from exposure to this product will depend on several factors including; frequency and duration of use; quantity and concentration used; effectiveness of control measures used, PPE used and the application method selected.
	It is expected that users will evaluate the risks and apply appropriate control measures before and during use of AIRX OPEN.
SECTION 16	OTHER INFORMATION
Uses	Removes blockages in drains
	Clears grease traps
	Clears septic systems

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. The responsibility for products sold is subject to our standard terms and conditions. Please read all labels carefully before using product.

CHEMIST:	G.A.L.Paul, FRACI, FICHE, CPChem, CChem, CEng, MFACS (Life), MAIE, CSci.	DATE PREPARED;	March 2008
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