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Material Safety Data Sheet

SECTION 1		IDENTIFICATION	
PRODUCT NAME: AIRX MAINTAIN			
UN Number	None allocated	HAZCHEM CODE	None allocated
Dangerous Goods Class	Not classified as a Dangerous Good by the criteria of the ADG Code	NOHSC Australia classification	Classified as hazardous according to NOHSC criteria
Packaging Group	None allocated, PG III can be used as a guide.	Poisons Schedule	A poison schedule number has not been allocated to this product using the criteria in the SUSDP
Primary Uses	Bio-Enzymatic Grease Trap & Drain Treatment		
SECTION 2		COMPOSITION	
CHEMICAL DESCRIPTION		CAS No.	Proportion %
Viable Bacterial Cultures (non-pathogenic)		N/A	<10%
Orange Ultra Fragrance		138-86-3	<2%
Ethoxylated surfactant		84133-50-6	<10%
Dye mixture		81-88-9 1934-21-0	<1%
Anionic Polymer		N/A	<2%
Deionised Water		7732-18-5	balance
SECTION 3		HAZARDS IDENTIFICATION	
MOST IMPORTANT HAZARDS	Organisms used are non-pathogenic, but can cause infection when in contact with open wounds. The organisms used are susceptible to many commonly used antibiotics.		
Adverse human health effects	Eyes: Risk of infection of lacerations if splashed in eyes. Dust or mist could infect eyes on contact. Inhalation: Not an exposure route Skin: Risk of infection of any open wounds if splashed on skin. Ingestion: Not considered as an exposure route.		
Environmental effects	This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Not expected to bioaccumulate.		
Physical and Chemical Hazards	None known		
Further hazards	N/A		
Carcinogen status	ACGIH: No significant ingredient is classified as carcinogenic by ACGIH.		
Classification / Specific hazards	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.		
	Not classified as a Dangerous Good according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail.		
SECTION 4		FIRST AID MEASURES	
Contact with eyes	Hold eyelids open and gently flush with clean running water for 15 minutes or until advised to stop by a doctor or Poisons Information Centre (Australia 131 126).		
Inhalation	Remove exposed person to fresh air. Treat symptomatically.		

Contact with skin	Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Ingestion	Drink large quantities of water or milk. Contact a doctor or Poisons Information Centre for further advice. DO NOT give anything by mouth to any unconscious patient.
Other Information	Can cause infection in open wounds.
Advice to doctor	Treat symptomatically.
SECTION 5	FIRE - FIGHTING MEASURES
EXTINGUISHING MEDIA	Product is not flammable.
- Suitable	For adjacent fires suitable/compatible extinguishing media are Carbon Dioxide (CO ₂), Dry Chemical Powder (DCP), Foam and water.
	If possible remove drums from fire area, water fog can be used to keep drums cool in the event of adjacent fires and prevent overpressure from heat.
- Not suitable	None known
Specific Hazards	In the event of spillages or ruptured drums, avoid causing sprays of AIRX MAINTAIN by direct water jets.
SECTION 6	ACCIDENTAL RELEASE MEASURES
Personal Precautions	Impervious gloves (PVC or rubber), splash proof goggles or safety glasses.
	Do not enter confined fire-spaces without full protective clothing and self-contained air supply.
Environmental Precautions	Absorb spillage with sand, vermiculite or similar material, collect and place in sealable containers for disposal. Prevent spillage from entering waterways.
	Caution: Slippery when spilt
Methods for cleaning up	For small amounts absorb with sand, vermiculite or similar and dispose to an approved landfill site. Dispose in accordance with relevant local legislation.
Disposal considerations:	There are many varying pieces of legislation covering waste disposal and they differ by country, state, province and territory, so each user is expected to refer to laws in their area. For any disposal considerations including containers we recommend the end user to consider the following suggestions: reduce, re-use, recycle before disposal is considered.
SECTION 7	HANDLING AND STORAGE
Handling – PPE	<p><u>Respiratory Protection:</u> If there is a significant risk of dusts, vapours or mists accumulating in the area where this product is being used, a mask or respirator should be used. For assistance in selection of suitable equipment, recommended to consult AS/NZS 1715.</p> <p><u>Eye Protection:</u> Protective eyewear should be worn when using this product. Eye contact may prove painful if not dangerous and should be avoided if possible. For eye protection consult AS 1336 and AS/NZS 1337 for recommendations on eye protection.</p> <p><u>Gloves:</u> Non-permeable gloves (e.g. PVC or rubber) should be worn when handling this product. For assistance in selection of equipment consult AS 2161</p> <p><u>Safety Boots:</u> Wearing of safety boots in any industrial operation is advisory. For advice on Occupational Protective Footwear consult AS/NZS 2210.</p> <p><u>Work clothing:</u> Clean overalls or other protective clothing should be worn (use of aprons can be beneficial in many applications), for advice refer to AS 2919.</p>
Technical measures	For industrial situations, concentrations below the TWA value should be maintained and strict controls on levels below TLV are essential. Where a substance also has a C (Ceiling limit) maintenance of values below this level are critical. Values may be reduced by process modification, use of local exhaust ventilation, preferably capturing substances at the source, or other methods.

STORAGE	
Technical measures	Ensure containers remain adequately labeled, protected from physical damage and sealed when not in use.
Storage conditions	Store in a cool, dry, well ventilated area, out of direct sunlight and out of the reach of children, removed from oxidizing agents, acids and foodstuffs.
	To maintain product activity Avoid freezing.
Incompatible products	Oxidizing agents and acids.
PACKAGING	
Packaging Materials	
- Recommended	Plastics, PVC, PET, Polyethylene and Polypropylene.
- Not Suitable	Metals, cardboard, timber.
SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
ENGINEERING MEASURES	
Ventilation	In poorly ventilated areas mechanical ventilation is recommended
Personal protective equipment	
Hand protection	Impervious gloves; PVC or rubber
Eye protection	Goggles or splash proof safety glasses
Skin and body protection	Normal work clothes and appropriate footwear.
SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
Appearance and Physical State	
Form, Colour & Odour	Pale orange, opaque (milky) liquid, faint orange odour
pH	Typical 6.5 to 7.5
Specific temperatures	Phase separation; <5 °C and greater than 50 °C
Freezing	Approximately 0 °C (water) [Note: Freezing will permanently damage the product]
Boiling	I.B.P.: Approximately 100 °C (water)
Flammability characteristics	Non-flammable
Flash point	None detected
Oxidizing properties	None known
Specific gravity	1.001 +/- 0.005 g/cm ⁻³
Solubility	
In water	Soluble
In organic solvents	Immiscible in hydrocarbons
SECTION 10	STABILITY AND REACTIVITY
Stability	AIRX MAINTAIN is Stable
Hazardous reactions	None known
Hazardous Polymerisation	Will not occur
Materials to avoid	Oxidizing agents and acids.
Hazardous decomposition products	May evolve toxic gases if heated to decomposition (e.g.: Carbon Oxides)
SECTION 11	TOXICOLOGICAL INFORMATION
Acute toxicity	Ethoxylated surfactant: LD ₅₀ rat (orl) = 2.83 (1.84 – 4.34) ml/kg

	Orange Ultra fragrance; LD ₅₀ rat (orl) = 4400 mg/kg
Local effects	No data available –recommend TWA = 10 mg/M ³ as a guide.
Sensitisation	This product is not anticipated to cause sensitization, there are no reported cases at the time of publication of this data sheet. There are viable enzymes however which may have the potential to create sensitivity in the event of prolonged and repeated exposure to this product.
SECTION 12	ECOLOGICAL INFORMATION
Mobility	AIRX MAINTAIN is a mobile liquid and will rapidly flow over ground and may penetrate soil layers, particularly in friable soils.
Biodegradability	AIRX MAINTAIN is biodegradable.
Bioaccumulation	This product is not expected to bioaccumulate
Ecotoxicity	This product is not expected to cause adverse effects to animal or plant life if released to the environment in small doses.
SECTION 13	DISPOSAL CONSIDERATIONS
Waste from residues	Wastes from residues will become a part of the Grease Trap and Drainage system either ending life in the trade waste treatment plant or sewer. There should be no residues.
Contaminated Packaging	Thoroughly rinse out empty containers with water and dispose of to an approved solid waste tip or transfer station.
SECTION 14	TRANSPORT INFORMATION
Transport stability	Product is stable
UN Number	None allocated
Hazchem	None allocated
Dangerous Goods Class and Subsidiary Risk	Not classified as a Dangerous Good by using the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Poisons 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.
Packaging Group	None allocated, PG III may be used as a guide.
SECTION 15	REGULATORY INFORMATION
LABELLING	
- Risk Phrases	None allocated
- Safety Phrases	S2; Keep out of the reach of children
	S13 Keep away from food, drink and animal feeding stuffs.
	S24/25; Avoid contact with skin and eyes
Classifications / Symbols	None allocated
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 method selected for of application of this product.
	It is expected that end users will evaluate the risks and apply appropriate control measures before and during use of this product.
SECTION 16	OTHER INFORMATION
Uses	AIRX MAINTAIN is a Bio-Enzymatic Grease Trap and Drain treatment which will work to liquefy grease, organic matter and other potential blockages in grease traps, drains and drain lines.
	For use in food processing plants, restaurants, cafeterias, food service kitchens, fast food stores etc.

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, FIChemE, CPChem, CEng, CSci, CChem, MFACS (Life), MAIEnergy.	DATE PREPARED;	March 2008
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General references:

1. ACGIH TLV's and BEI's (Threshold limit values and Biological exposure Indices)
2. SAA/NZS HB76, Dangerous Goods – Initial Emergency Response Guide
3. NOHSC: 2012, National Code of Practice for the labeling of Workplace Substances
4. NOHSC: 10005 List of Designated Hazardous Substances
5. NOHSC: 1008, Approved criteria for classifying hazardous substances.
6. Australian Code for the transport of Dangerous Goods by Road and Rail (ADG Code)
7. Hazardous Materials Handbook, Ponash & Greene
8. Hazardous Chemicals Desk Reference, Lewis
9. SAX's Dangerous Properties of Industrial Materials, Lewis
10. AS 1940, The storage and Handling of flammable and combustible liquids
11. Code of Practice for the Control of workplace hazardous substances
12. NOHSC: 2011, National code of practice for the preparation of Material Safety Data Sheets
13. Proprietary MSDS of contained raw materials from suppliers.
14. Also: AS/NZS 1715, AS2161, AS 1336, AS/NZS 2919, AS/NZS 2210
15. ChemAlert from RMT references to materials.