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## Material Safety Data Sheet

SECTION 1		IDENTIFICATION		AIRX AIRICIDE	
<b>PRODUCT NAME: AIRX AIRICIDE</b>					
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 could be used as a guide	Poisons Schedule	None allocated		
Primary Uses	Super strength foul odour eliminator				
SECTION 2		COMPOSITION			
CHEMICAL DESCRIPTION		CAS No.	Proportion %		
Alcohol		67-63-0	<20%		
Proprietary odour counteractant		N/A	<10%		
Non-ionic surfactant		127087-87-0	<10%		
Complex quaternary amine		139-08-2	<5%		
Complex glycol		57-55-6	<10%		
Glycol polymer		25322-66-3	<10%		
Sequestering agent		64-02-8	<5%		
Deionised water		7732-18-5	Balance		
SECTION 3		HAZARDS IDENTIFICATION			
<b>MOST IMPORTANT HAZARDS</b>	Irritant. Prolonged contact of the concentrated product with skin and / or eyes will cause irritation.				
Adverse human health effects	<p><b>Eyes:</b> Irritating to eyes, mist may be irritating to eyes causing lacrymation, pain and redness.</p> <p><b>Inhalation:</b> Mild irritant. Mist may irritate nose causing sneezing or coughing. Due to the low vapour pressure of AIRX AIRICIDE an inhalation hazard is not anticipated. Broadly sprayed without PPE or in poorly ventilated areas, systemic effects from inhalation may include nausea, unwell feeling and possible mucous membrane and respiratory irritation.</p> <p><b>Skin:</b> Mild irritant. Prolonged and repeated contact may result in defatting of tissue, irritation, rash and dermatitis.</p> <p><b>Ingestion:</b> Ingestion may result in nausea and vomiting, gastrointestinal irritation, dizziness and diarrhoea.</p>				
Environmental effects	Limited environmental data was available at the time of preparation of this data sheet. The pH of AIRX AIRICIDE should have little or no effect on marine life. Micro organisms may be affected as AIRX AIRICIDE contains deodorising and disinfection properties.				
Physical and Chemical Hazards	Mild irritant				
Further hazards	None known				
Carcinogen status	<b>ACGIH:</b> No significant ingredient is classified as carcinogenic by ACGIH.				

Classification / Specific hazards	None allocated
SECTION 4	FIRST AID MEASURES
Contact with eyes	Flush with gently running clean water for at least 15 minutes or until advised to stop by a doctor or Poisons Information Centre (Phone: 131 126). If irritation persists contact a doctor.
Inhalation	Not considered as a likely route of exposure. IF irritation occurs remove casualty to fresh air and keep warm, contact a doctor for further advice.
Contact with skin	Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation develops or persists contact a doctor.
Ingestion	Do not induce vomiting, water or milk may be given to the casualty. Do not give anything by mouth to an unconscious person. Contact a doctor or Poisons Information Centre (Phone: 131 126) for further assistance.
Other Information	None known
Advice to doctor	Treat symptomatically.
SECTION 5	FIRE - FIGHTING MEASURES
<b>EXTINGUISHING MEDIA</b>	
- Suitable	Preferred extinguishing media are Carbon Dioxide (CO <sub>2</sub> ), Dry Chemical Powder (DCP), Foam and water.
- Not suitable	None known
Specific Hazards	None known
SECTION 6	ACCIDENTAL RELEASE MEASURES
Personal Precautions	Appropriate PPE, Safety Glasses or goggles, PVC or rubber gloves, normal coveralls and appropriate safety boots or shoes or gum boots.
Environmental Precautions	Prevent material from entering drains or waterways. For large spills absorb with suitable absorbent (inorganic mineral, sand or vermiculite or similar), then shovel up into containers for disposal.
Methods for cleaning up	Absorb on inorganic material as above, shovel up and remove spillage, traces may be hosed down to drain (pH of 1:128 solution ... 7.0).
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>Work clothing: 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 reduced by process modification, use of local exhaust ventilation, preferably capturing substances at the source, or other methods.

<b>STORAGE</b>	
Technical measures	Store away from oxidizing agents, alkalis, and foodstuffs. Keep out of the reach of children. Protect from physical damage and sealed when not in use. Ensure product remains adequately labeled.
Storage conditions	Store in a cool dry well ventilated area, out of direct sunlight.
Incompatible products	Oxidizing agents, acids and alkalis.
<b>PACKAGING</b>	
Packaging Materials	Not regulated but recommended to use PG III as a guide.
- Recommended	Plastics, Polyethylene, Polypropylene, PVC, PET.
- Not Suitable	Wood, active metals, copper, cardboard.
<b>SECTION 8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
<b>ENGINEERING MEASURES</b>	
Ventilation	Ensure adequate natural ventilation, in poorly ventilated areas use mechanical ventilation.
Personal protective equipment	
Hand protection	PVC or rubber gloves or gauntlets.
Eye protection	Splash proof safety glasses, chemical goggles or face shield.
Skin and body protection	Normal work-clothes, coveralls and appropriate footwear.
<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
Appearance and Physical State.	
Form, Colour & Odour	Clear liquid with characteristic odour
pH	8.8 – 9.2
Specific temperatures	Cloud point ; Less than 5 °C, greater than 50 °C
Freezing	<0 °C
Boiling	Not available
Flammability characteristics	AIRX AIRICIDE will not support combustion
Flash point	
Oxidizing properties	None known
Specific gravity	0.975 – 0.985 g / cm <sup>-3</sup>
Solubility	
In water	Completely soluble /miscible
In organic solvents	Insoluble in hydrocarbon solvents
<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
Stability	Product is stable – minimum expected shelf life = 2 years
Hazardous reactions	None known
Hazardous Polymerisation	Will not occur
Materials to avoid	Oxidizing agents, acids, alkalis
Hazardous decomposition products	May evolve toxic gases if heated to decomposition

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
Acute toxicity	Alcohol: LD <sub>50</sub> orl (mouse) ; 3600 mg/kg
	Glycol Polymer: LD <sub>50</sub> orl (rat); 33750 mg/kg
	Complex glycol; LD <sub>50</sub> orl (quail): >2080 mg/kg, LD <sub>50</sub> orl (rat) 20,000 mg/kg
Local effects	Alcohol; ES -TWA : 400 ppm, ES - STEL : 500 ppm WES – TWA : 400 ppm
	Other components: Exposure standards have not been allocated to the other ingredients in this product.
Sensitisation	None known – no cases reported
<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
Mobility	Product is a low to medium viscosity liquid and will rapidly dissipate unless held by bunding. Will also soak rapidly into friable soil profiles.
Biodegradability	Product is biodegradable
Food chain	AIRX AIRICIDE is not expected to bioaccumulate.
Ecotoxicity	AIRX AIRICIDE will affect micro flora and micro fauna populations.
<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
Waste from residues	In normal use there are not expected to be any residues. Wastes if any, should be diluted and sent to waste treatment drains (do not place concentrated material into drains subject to biological treatment).
Contaminated Packaging	Thoroughly rinse out containers and send to cleaning and recycling plant or if no recycling available send out to an approved solid waste tip or transfer station.
<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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 the criteria of the ADG Code (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 (SUSDP).
Packaging Group	None allocated. PG III can be used as a guide if required.
<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
<b>LABELLING</b>	
- Risk Phrases	R36; Irritating to eyes
- Safety Phrases	S2; Keep out of the reach of children
	S24/25; Avoid contact with skin and eyes
	S37/39: wear suitable gloves and eye/face protection.
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.
<b>SECTION 16</b>	<b>OTHER INFORMATION</b>

Uses	AIRX AIRICIDE is a multi-purpose, broad spectrum odour counteractant in water soluble form. It is many times the concentration of ordinary water based deodourisers and is effective against stronger, more disagreeable odours and gives longer residual action.
	AIRX AIRICIDE may be used directly from the supplied bottle or can be refilled into squirt bottles as required.
	Super strength foul odour eliminator. Eliminates bad odours from sickness, animals, human incontinence, garbage, smoke, 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, FICHEM, 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.