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Material Safety Data Sheet

SECTION 1		IDENTIFICATION		AIRX SUPER	
Product Name		AIRX SUPER Spray N Wipe Disinfectant			
UN Number	None allocated	HAZCHEM CODE	None allocated		
Dangerous Goods Class	Not a Dangerous Good using the criteria of the ADG Code	NOHSC Australia classification	Classified as hazardous according to the criteria of NOHSC.		
Packaging Group	None allocated, PG III may be used as a guide	Poisons Schedule	None allocated using the criteria of the SUSDP		
Uses	Anti-bacterial	Heavy Duty Cleaner			
SECTION 2		COMPOSITION			
CHEMICAL DESCRIPTION		CAS No.		Proportion %	
Ethylene Diamine Tetra-acetic Acid		64-02-8		<10%	
Sodium Metasilicate		6834-92-0		<10%	
2-(2-Butoxyethoxy) ethanol		112-34-5		<10%	
Proprietary compound; odour counteractant,		N/A		<10%	
Quaternary ammonium compound (Blend)		68391-01-5 68956-79-6		}<10%	
Deionised water		7732-18-5		Balance	
SECTION 3		HAZARDS IDENTIFICATION			
Most Important Hazards	Alkaline pH >10 Mildly corrosive.				
Adverse human health effects	Irritant to skin and eyes, otherwise low toxicity				
Long term exposure effects (if any)	None known, expected that repeated or prolonged exposure may cause skin rash and ultimately lead to allergic contact dermatitis.				
Environmental effects	As a sanitizer will destroy micro flora and fauna, bacteria and also toxic to fingerlings/fry/small fish.				
	Catastrophic spillage into waterways will affect marine organisms in the immediate area, no indicated cumulative effects or bioaccumulation. Effects dissipate on dilution. Product is biodegradable.				
Physical and Chemical Hazards	Mild Alkali pH				
Further hazards	None known				
Classification / Specific hazards	Avoid contact with cuts and sores. Kills a broad range of Gram Negative and Gram Positive bacteria including Pseudomonas aeruginosea				
SECTION 4		FIRST AID MEASURES			
Contact with skin	Wash thoroughly with soap and water. Continual exposure to skin will lead to dryness and defatting of tissue so thorough rinsing essential.				
	Remove contaminated clothing, keep patient warm.				

Contact with eyes	Flush eyes with plenty of gently running water for at least 15 minutes. Seek medical attention.
Ingestion	Do not induce vomiting, give large quantities of water or milk . Never give anything by mouth to an unconscious person. Seek medical attention.
Inhalation	Remove from exposure to fresh air immediately. Seek medical attention. Inhalation of an aerosol mist of this product is unlikely but inhalation of airborne mist may cause irritation of the respiratory tract with burning sensation in the nose or throat, coughing wheezing and shortness of breath, possible pulmonary odema.
Other Information	Advice to doctor; Medical conditions aggravated by exposure: Asthma, skin and lung diseases.
	Treat symptomatically based on judgment of doctor and individual reactions of patient.
SECTION 5	FIRE - FIGHTING MEASURES
Extinguishing media	This product is non-flammable and not combustible.
- Suitable	For surrounding fires, AIRX SUPER is compatible with DCP, foam, CO ₂ and water.
- Not suitable	None known
Specific Hazards	None known relating to fire.
SECTION 6	ACCIDENTAL RELEASE MEASURES
Personal Precautions	Wear PPE as ; PVC or rubber gloves, eye protection (safety glasses, chemical goggles or face shield as below), gum boots and normal work clothes.
Environmental Precautions	Do not allow to reach waterways, for small spillages absorb on sand or other inert material (e.g.; exfoliated vermiculite). Product alkalinity can be neutralized with Sodium Bicarbonate. Place residues in sealed containers for disposal.
Methods for cleaning up	Once spillage picked up and placed in containers for disposal, hose down areas with water to go to treatment plant or trade waste system (sewer). For the recovered spillage contact a Waste Authority for disposal at an approved tip or transfer station.
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 (eg 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	Stable for transport purposes and under normal storage conditions.
Technical measures	When not in use keep in sealed containers. Check store regularly for spills or leakage.
Storage conditions	Store in a cool, dry well ventilated area out of direct sunlight.
Incompatible products	Strong acids, oxidizing agents.
Packaging	
Packaging Materials	Not regulated, use PG III as a guide
- Recommended	Plastics, PE, PP, PVC preferably black to exclude UV.
- Not Suitable	Glass or light metals (eg Magnesium and alloys)
SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering measures	
	As with any chemicals, it is good practice where there is significant bulk storage to have emergency showers and eye wash stations readily accessible.
	Wash thoroughly after handling. Do not eat, drink or smoke whilst handling this product.
	Avoid unnecessary exposure.
Personal protective equipment	
Hand protection	PVC or rubber gloves to standards as above
Eye protection	Safety glasses, goggles or face shield.
Skin and body protection	Apron, overalls and boots. Rinse and launder contaminated clothing before re-use.
SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
Appearance	
Physical state	Liquid
Form, Colour & Odour	Clear liquid,
pH	11.5
Specific temperatures	
Freezing	As water ~ 0oC [Cloud point <10° - >50°c]
Boiling	~ 100 °C
Flammability characteristics	
Flash point	Not relevant, none detected – product is not combustible
Oxidizing properties	N/A
Specific gravity	~1.0 g cm ⁻³
Solubility	
In water	Completely miscible in water
In organic solvents	Insoluble in hydrocarbon solvents.
SECTION 10	STABILITY AND REACTIVITY
Stability	Stable
Hazardous reactions	None specifically known,
Materials to avoid	Strong acids and oxidizing agents

Hazardous decomposition products	The principal product evolved in heating this product is water, there are no other known decomposition products until the product is evaporated to dryness. May evolve toxic gases if heated to decomposition.
Food chain	Product is not expected to bio-accumulate
SECTION 11	TOXICOLOGICAL INFORMATION
Acute toxicity	Low toxicity (see below for major components)
	<p>2-(2-Butoxyethoxy) ethanol data: eye-rbt 5 mg SEV (AJOPAA) orl-rat LD₅₀: 6560 mg/kg (UCDS) orl-mus LD₅₀: 2400 mg/kg (JACTDZ) skn-rbt LD₅₀: 4120 mg/kg (UCDS)</p> <p>Ethylene Diamine Terra-acetic acid, tetra-sodium salt, data: Orl-rat LD₅₀: 1000-2000 mg/kg (Campbell) Fish 96 Hr LC₅₀: 41-2070 mg/l (Orica) Daphnids EC₅₀ > 100 mg/L/48 Hr (Campbell) Fish LC₅₀: >500 mg/L/96 hr (Campbell)</p>
Local effects	This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities.
	This product is not expected to bioaccumulate but will rapidly bio-degrade once in the environment.
Sensitisation	Not expected to cause lasting effects, prolonged exposure may result in rash and continued exposure may lead to dermatitis. No cases of sensitization have been reported.
SECTION 12	ECOLOGICAL INFORMATION
Mobility	This product is very mobile as a medium to low viscosity liquid and could be expected to rapidly soak into soil layers if spilled.
Biodegradability	This product is biodegradable
Ecotoxicity	See toxicological information in Section 11.
SECTION 13	DISPOSAL CONSIDERATIONS
Waste from residues	Flush to sewer or trade waste system. Do not drain large quantities o waterways or storm-water.
Contaminated Packaging	Rinse out containers, dispose as solid waste.
SECTION 14	TRANSPORT INFORMATION
	Stable to transport under normal conditions
UN Number	None allocated
Hazchem	None allocated could use 2[Z] as a guide if required
Dangerous Goods Class and Subsidiary Risk	Not classified as a Dangerous Good by the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Poison Schedule	A poison schedule number has not been allocated to AIRX SUPER using the criteria in thde Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Packaging Group	None allocated, PG III can be used as a guide
SECTION 15	REGULATORY INFORMATION
Labelling	
- Risk Phrases	None allocated
- Safety Phrases	S2; Keep out of the reach of children
	S24/25; Avoid contact with the skin and eyes

Classifications / Symbols	Not classified
Note	The effects from exposure to AIRX SUPER 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 the 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 SUPER is a quaternary ammonium based disinfectant cleaner that is unique in its ability to kill the Tuberculosis bacilli in addition to a broad range of other Gram positive and Gram negative bacteria as well as the AIDS virus and pathogenic fungi.
	As a spray and wipe cleaner the same superior penetrating ability that allows AIRX SUPER to pierce the waxy shell surrounding the TB organism makes it outstanding in its ability to penetrate, loosen and remove stubborn, heavy soils.

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; Date revised:	April, 2006 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 RMIT reference to raw materials.