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## Material Safety Data Sheet

SECTION 1	IDENTIFICATION		
<b>PRODUCT NAME: AIRX BIN BLASTER – (CONCENTRATED DEO-DEGREASER)</b>			
UN Number	1993 (Flammable liquid N.O.S.)	HAZCHEM CODE	3[Y]
Dangerous Goods Class	Classified as a Dangerous Good Class C1 by the criteria of the ADG code	NOHSC Australia classification	Classified as hazardous according to NOHSC Criteria
Packaging Group	PG III	Poisons Schedule	Classified as a Schedule 5 Poison by the criteria of SUSDP
Primary Uses	Concentrated Deo-Degreaser	Water activated degreaser/cleaner & Odour counteractant	For garbage bins and waste collection equipment
SECTION 2	COMPOSITION		
CHEMICAL DESCRIPTION		CAS No.	Proportion %
Citrus terpenes		5989-27-5	<50%
Aromatic petroleum distillate		64742-94-5	<50%
Complex Nonylphenol surfactants		9016-45-9	<10%
Aliphatic petroleum distillate		8052-51-3	<10%
Proprietary fragrances and deodorants		Proprietary trade secret	<10%
SECTION 3	HAZARDS IDENTIFICATION		
<b>MOST IMPORTANT HAZARDS</b>	Low Toxicity – Irritant. Avoid eye or skin contact and mist inhalation. The mineral oils contained in this product are solvent refined and therefore occupational cancers associated with chronic exposure to less refined mineral oils are not anticipated.		
Adverse human health effects	<p><b>Eyes:</b> irritant. Exposure may result in lacrymation, irritation, pain redness, conjunctivitis and possible corneal burns with prolonged contact.</p> <p><b>Inhalation:</b> Low irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing, nausea, dizziness and headaches.</p> <p><b>Skin:</b> Irritant. Prolonged and repeated contact may result in drying and defatting of the skin with rash dermatitis and sensitization.</p> <p><b>Ingestion:</b> Low toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea and drowsiness.</p> <p>Aspiration may result in chemical pneumonitis and pulmonary oedema.</p>		
Environmental effects	<p>If released into the atmosphere the components of this product are expected to undergo oxidation reaction with hydroxyl radicals, ozone and nitrate radicals.</p> <p>If released into soil this product is expected to volatilize from the surface, adsorption is also considered to be significant.</p> <p>In water these would be expected to emulsify but may be resistant to biodegradation under aerobic conditions and may be very toxic to aquatic organisms, may cause adverse long term effects in the aquatic environment. In still water this product may not emulsify but float on water restricting oxygen exchange with possible asphyxiation of aquatic life in the immediate area.</p>		
Physical and Chemical Hazards	This product has been classified as C1 combustible, having a flash point >60.5 °C, <150 °C (Typical 82 °C) and will burn in a similar fashion to diesel.		
Further hazards	None known		

Carcinogen status	<b>ACGIH:</b> No significant ingredient is classified as carcinogenic by ACGIH. Citrus terpenes have been identified as questionable carcinogens with experimental tumorigenic and teratogenic data (Refer Sax)..
Classification / Specific hazards	Flammable liquid – Class C1 Combustible, Poison Schedule - Poison S5 (Industrial poison)
<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
Contact with eyes	Hold eyelids apart and flush continuously with clean, gently running water. Continue until advised to stop by a doctor or Poisons Information Centre (Phone: 131 126), or for at least 15 minutes. Keep patient calm and warm.
Inhalation	Leave area of exposure. If symptoms develop, seek urgent medical attention. If assisting the exposed person, do not become a secondary casualty, wear a type A (organic vapour) respirator or breathing apparatus. If person is not breathing, apply artificial respiration and seek urgent medical attention.
Contact with skin	Remove contaminated clothing and launder before re-use or discard. Wash affected area with soap and water. If irritation develops and persists, seek medical attention.
Ingestion	Do NOT induce vomiting. Immediately wash out mouth with water, then give water (or milk) to drink. Seek medical attention.
	Note: Aspiration of product may result in chemical pneumonitis and pulmonary oedema.
Other Information	None known at time of publication of this data sheet.
Advice to doctor	Treat symptomatically.
<b>SECTION 5</b>	<b>FIRE - FIGHTING MEASURES</b>
<b>EXTINGUISHING MEDIA</b>	
- Suitable	Preferred extinguishing media are Carbon Dioxide (CO <sub>2</sub> ), Dry Chemical Powder (DCP), Foam and water fog.
	Prevent contamination of drains and waterways. Absorb runoff with sand, vermiculite or similar.
- Not suitable	Water jet.
Specific Hazards	Flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated.
<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
Personal Precautions	PPE: Wear splash proof goggles, Impervious PVA or viton gloves, a Type A (organic vapour) respirator (where an inhalation risk exists) and coveralls with appropriate footwear.
	If spilt & containers damaged (bulk), contact emergency services where appropriate. Eliminate ignition sources. Ventilate and clear the area of all unprotected personnel. Small spills, absorb with sand, vermiculite or similar inorganic material and place in sealable containers for disposal.
Environmental Precautions	Prevent AIRX BIN BLASTER from entering drains or waterways, in the event of a catastrophic large spillage prevent runoff with sand or vermiculite or other similar material until bulk liquid can either be absorbed or recovered for disposal.
Methods for cleaning up	Remove spilt material for disposal and when only traces remain wash down trace material to trade waste.
Disposal considerations:	There are many varying pieces of legislation covering waste disposal and they differ by Country, state, province and territory where regulations and appropriate actions will vary, 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 reduced by process modification, use of local exhaust ventilation, preferably capturing substances at the source, or other methods.	
<b>STORAGE</b>		
Technical measures	Ensure containers remain adequately labeled and protected from physical damage and are sealed when not in use.	
	Use safe work practices to avoid eye and skin contact and inhalation. Observe good personal hygiene measures including washing hands before eating.	
Storage conditions	Store in a cool, dry , well ventilated area conforming to flammable storage requirements (Refer AS: 1940), removed from direct sunlight, heat and ignition sources, oxidizing agents (e.g.: peroxides), acids (e.g.: nitric acid) and food stuffs.	
	Large storage areas should have appropriate fire protection and ventilation systems (Refer; AS 1940, requirements for Class C1 flammable liquids)	
Incompatible products	Oxidizing agents, acids.	
<b>PACKAGING</b>		
Packaging Materials		
- Recommended	Refer PG III; Tinsplate cans, steel drums.	
- Not Suitable	Not recommended for plastics due to paneling of the polymers.	
SECTION 8		EXPOSURE CONTROLS / PERSONAL PROTECTION
<b>ENGINEERING MEASURES</b>		
Ventilation	Local exhaust or mechanical ventilation recommended	
Personal protective equipment		
Hand protection	Impervious gloves – PVA or nitrile rubber preferred	
Eye protection	Splash proof safety glasses, chemical goggles or face shield.	
Skin and body protection	Coveralls and appropriate footwear. A PVC apron can be beneficial in applications where splashing is likely.	
SECTION 9		PHYSICAL AND CHEMICAL PROPERTIES
Appearance and Physical State		
Form, Colour & Odour	Clear solution, straw colour, characteristic “pot purri” fragrance/odour.	
pH	Not applicable	
Specific temperatures		
Freezing	No data available	
Boiling	No data available	

Flammability characteristics	
Flash point	Flash point -87 °C
Oxidizing properties	None known
Specific gravity	0.922 g/cm <sup>3</sup>
Solubility	
In water	Partially emulsifies
In organic solvents	Miscible
<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
Stability	Product 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 (carbon oxides, hydrocarbons) when heated to decomposition.
<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
Acute toxicity	Aliphatic petroleum distillate: LD <sub>50</sub> orl (rat); >5000 mg/kg
	Citrus terpenes: LD <sub>50</sub> orl (rat): 4400 mg/kg
	Complex Nonylphenol surfactants LD <sub>50</sub> orl (rat): 1310 mg/kg
	Aromatic petroleum distillate: LD <sub>50</sub> orl (rat): >2000 mg/kg
Local effects	An exposure standard (ES-TWA, ES-STEL, WES-TWA, ES-PEAK< ES-TLV) has not been allocated to the ingredients contained in this product.
Sensitisation	May cause sensitization by skin contact.
<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
Mobility	Product is a low viscosity liquid and will rapidly disperse.
Biodegradability	All components expected to biodegrade and oxidize by photochemical reactions in air.
Ecotoxicity	Expected to be toxic to fish, aquatic invertebrates and organisms in sewage treatment plants. May cause long-term adverse effects in the aquatic environment.
<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
Waste from residues	For small amounts, absorb with sand, vermiculite or similar inorganic material and dispose to and approved landfill site or transfer station.
	For large amounts, recover as much as possible for disposal as a combustible liquid, the remainder, treat as for small amounts. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Contaminated Packaging	Ensure containers are all fully drained and then recycle, re-use or dispose to a solid waste tip or transfer station. Note: Containers likely to contain hazardous fumes, keep away from ignition sources.
<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
Transport stability	Product is stable. As combustible Liquid C1, do not transport with chemicals of class; 1 (Explosives), 2.1/2.3 (Flammable /Toxic gases), 4.2 (Spontaneously combustibles), 5.1 (oxidizing agents), 5.2 (organic Peroxides), 6 (Toxics), 7 (Radioactives) and foodstuffs.

UN Number	1993 (Flammable Liquid N.O.S.)
Hazchem	3[Y]
Dangerous Goods Class and Subsidiary Risk	Flammable Liquid Class C1 (Combustible)
Poisons Schedule	Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)
Packaging Group	PG III
<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
<b>LABELLING</b>	
- Risk Phrases	R10 Flammable R38 Irritating to skin R43 May cause sensitization by skin contact R50/53
- Safety Phrases	S2 Keep out of the reach of children. S24 Avoid contact with skin S37/39 Wear suitable gloves and eye/face protection S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to safety data sheets.
Classifications / Symbols	Flammable, Class C1 Combustible
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 BIN BLASTER Concentrated Deo-Degreaser; water activated degreaser/cleaner and odour counteractant for garbage bins and waste collection equipment. Specially formulated for heavy duty cleaning and degreasing of refuse containers and their surrounding areas, and for the elimination of the foul odours that are associated with them.

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;	April 5, 2007
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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.