

Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 1 of Total 7

Tuede Newser				
Trade Name:	AUTODISHWASH EC	AUTODISHWASH ECONOMY LIQUID		
SUPPLIER:	ECOCLEAN UTILITY AGENCIE	ECOCLEAN UTILITY AGENCIES PTY LTD		
ADDRESS:	PO Box 6224 YATALA DC 42	PO Box 6224 YATALA DC 4207		
TELEPHONE:	(07) 5549 3622	FAX:	(07) 5549 3666	
EMERGENCY PHONE:	13 1126 in Australia.	ABN:	72 135 037 160	
Substance:	water based liquid	Product Use:	Alkaline bleach cleaner	
Creation Date:	Dec 2016	Revision Date:	Dec 2021	

SECTION 2 – HAZARDS IDENTIFIC	ATION		
Classification of the substance or	mixture		
Poisons Schedule	S6 (POTASSIUM HYDROXIDE)		
Dangerous Goods	CLASS 8 CORROSIVE		
GHS Classification	Skin Corrosion/Irritation category 1A		
	Serious Eye Damage/Irritation Category 1		
	Corrosive to Metals category 1		
Label elements			
GHS label pictograms			
Signal word	DANGER		
Hazard statement(s)			
H314	Causes severe skin burns and eye damage.		
H318	8 Causes serious eye damage.		
H290	0 May be corrosive to metals.		
AUH031	31 Contact with acids liberates toxic gas.		
Precautionary statement(s): Gen	eral		
P101	If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.		
P103	P103 Read label before use.		
Precautionary statement(s): Prev	ention		
P234	Keep only in original container.		
P260	Do not breathe mists.		
P264	Wash hands/skin thoroughly after handling.		
P280			
Precautionary statement(s): Resp	Precautionary statement(s): Response		
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin		
	with water/shower.		
P363	Wash contaminated clothing before reuse.		
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for		
	breathing.		



Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 2 of Total 7

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P321	Specific treatment (see First Aid Measures on Safety Data Sheet).	
P390	Absorb spillage to prevent material damage.	
Precautionary statement(s): Storage		
P405	Store locked up.	
P406	06 Store in corrosive resistant/container with a resistant inner liner.	
Precautionary statement(s): Disposal		
P501	Dispose of contents/ container in accordance with local regulations.	
Note		
IMPORTANT	This SDS and the Hazard Classifications contained therein, only apply to the product in its	
	concentrated form, as supplied. When diluted to 1:50 or greater they no longer apply.	
	However, good hygiene and housekeeping practices should be adhered to.	

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS		
Ingredients:	CAS Number:	Proportion:
Sodium hypochlorite	7681-52-9	<10 % w/w
Potassium hydroxide	1310-58-3	10 – 30 % w/w
Disodium metasilicate	10213-79-3	<10 % w/w
Ingredients determined to be non- hazardous	various	< 10 % w/w
Water	7732-18-5	To 100 % w/w

NOTE: Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011. Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.

SECTION 4 - FIRST AID	MEASURES
Inhalation	Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.
Skin contact	Immediately wash contaminated skin with plenty of soap and water. Remove contaminated
	clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or
	redness persists.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove
	contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a
	doctor, or for at least 15 minutes. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person.
	Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give
	further water to achieve effective dilution. Seek immediate medical advice (e.g. doctor).
Advice to Doctor	Treat symptomatically and supportively. Can cause corneal burns. Delayed pulmonary oedema
	may result. Consider oral administration of sodium thiosulfate solutions if sodium hypochlorite is
	ingested. Do not administer neutralizing substances (e.g., acid antidotes) since the resultant
	exothermic reaction could further damage tissue. Sodium thiosulphate immediately reduces
	hypochlorite to non toxic products but may product hydrogen sulphide in contact with acids.
	Endotracheal intubation could not be needed if oedema compromises the airway. For
	individuals with significant inhalation exposure monitor arterial blood gases and chest x-ray.
	Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.
Scheduled Poisons	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand



Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 3 of Total 7

	can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
First Aid Facilities	Eyewash, safety shower and normal washroom facilities.

SECTION 5 – FIRE FIGHTING MEASURES		
Fire and Explosion	Non flammable liquid. However, on evaporation of the aqueous component, the residual	
Hazards	material may burn. Contact with metals may evolve flammable hydrogen gas.	
Extinguishing Media	Use an extinguishing media suitable for surrounding fires. Use carbon dioxide (CO2) fire	
	extinguisher, water fog, foam or fine water spray.	
Fire Fighting	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self- contained breathing apparatus if risk of exposure to products of combustion or decomposition.	
Flash Point	None	

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	HAZCHEM CODE : 2R	
	2 = water fog – in the absence of fog, a fine spray may be used.	
	R = No risk of violent explosion, Full protective clothing, Dilute.	
	Shut off engine and electrical equipment and leave off. No smoking or naked lights within 50	
	metres. Move people from immediate area; keep upwind. Consider initial evacuation distance of	
	100 metres in all directions. Stop leak if safe to do so. Send messenger to notify fire brigade and	
	police. Tell them location, material quantity, UN number and emergency contact. Indicate	
	condition of vehicle and damage or injuries observed. Warn other traffic.	
	Occupational Release	
	Minor spills do not normally need any special clean-up measures. In the event of a major spill,	
	prevent spillage from entering drains or water-courses. Wear appropriate protective equipment	
	as in section 8 below to prevent skin and eye contamination. Spilt material may result in	
	hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which	
	then can be put into appropriately labelled drums for disposal by an approved agent according	
	to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If	
	required, neutralize with sodium metabisulphite or sodium thiosulphate. If contamination of	
	sewers or waterways has occurred advise the local emergency services. In the event of a large	
	spillage notify the local environment protection authority or emergency services.	

SECTION 7 – HANDLING AN	D STORAGE
Handling	Corrosive liquid. Attacks skin and eyes. Causes burns. Avoid skin or eye contact with concentrate. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered. Launder contaminated clothing before re-use.
Storage	Corrosive liquid. Store in a cool dry well-ventilated area. Store away from oxidising agents and acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. Ensure that storage conditions comply with applicable local and national regulations. Protect from freezing. For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances. Ensure that storage conditions comply with applicable local and national regulations.



Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 4 of Total 7

SECTION 8 – EXPOSURE C	ONTROLS AND PERSONAL PROTECTION	
Exposure Limits	<ul> <li>National Occupational Exposure Limits, as published by National Occupational Health &amp; Safety Commission:</li> <li>Time-weighted Average (TWA):</li> <li>None established for product.</li> <li>Potassium hydroxide TWA: 2mg/m3 Peak limitation</li> <li>Sodium hypochlorite : 3 mg/m3 (1 ppm) Peak limitation</li> <li>Short Term Exposure Limit (STEL):</li> <li>None established for product.</li> </ul>	
Ventilation	This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.	
Personal Protective Equipment	Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;	
Eye Protection	Safety glasses with full face shield should be used for handling concentrate in quantity, cleaning up spills, decanting, etc. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.	
Hand Protection	Wear gloves of impervious material such as butyl rubber, natural latex, neoprene, PVC and nitrile – to handle in quantity, clean up spills, decanting, etc. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.	
Body Protection	Suitable protective workwear, e.g. rubber or plastic apron, sleeves, boots and cotton overalls buttoned at neck and wrist are recommended. Chemical resistant apron is recommended where large quantities are handled.	
Respirator	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
Physical State	Non-viscous liquid	Colour	straw
Odour	characteristic odour	Specific Gravity	1.1 – 1.2 @ 25 °C
Boiling Point	Approximately 100 °C	Freezing Point	Approximately 0 °C
Vapour Pressure	Not available	Vapour Density	Not available
Flash Point	Not flammable	Flammable Limits	none
Water Solubility	Miscible in all proportions	рН	14 neat
Volatile Organic	0 % v/v	Per Cent Volatile	Ca 85 % v/v
Compounds (VOC)	0% //		
Viscosity	Not available	Odour Threshold	Not available

#### SECTION 10 – STABILITY AND REACTIVITY



Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 5 of Total 7

Reactivity	Stable at normal temperatures and pressure.	
Conditions to Avoid	Extremes of temperature and direct sunlight. Reacts vigorously with acids.	
Incompatibilities	ACIDS: violent reaction can occur, yielding heat and pressure, which can burst an enclosed container. Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen), which generates fire or explosion hazards. Reacts slowly with ambient air (particularly carbon dioxide), which may cause certain insoluble salts top form in solutions. Incompatible with amines, ammonium salts, aziridine, methanol and phenylacetonitrile. Reacts with metal salts, peroxides and reducing agents. Reacts violently with acids.	
Hazardous	Thermal decomposition may result in the release of toxic and/or irritating fumes. Reacts	
Decomposition	vigorously with acids producing dangerous levels of gaseous chlorine.	

#### SECTION 11 – TOXICOLOGICAL INFORMATION

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POTENTIAL HEALTH EFFECTS		
No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.		
Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:		
Inhalation	Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation.	
	Exposure to high concentrations of the product in liquid form or as a mist may lead to possible	
	harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis	
	and emphysema.	
Skin contact	Corrosive to skin - may cause skin burns, severe irritation. Corrosion will continue until removed.	
	Severity depends on the concentration and duration of exposure. Burns are not immediately	
	painful; onset of pain may be minutes to hours.	
Eye contact	Corrosive to eyes; contact can cause corneal burns. Permanent eye damage, including loss of	
	sight, may occur. High concentrations of vapours will cause irritation.	
Ingestion	Swallowing can result in nausea, vomiting of blood and eroded tissue; chemical burns of the	
	mouth, throat & abdomen; perforation of the gastrointestinal tract.	
Chronic exposure	Prolonged and repeated skin contact with diluted solutions may induce eczematoid dermatitis.	
	Development of a defatting dermatitis on prolonged contact with potassium hydroxide has been	
	reported.	
Toxicology Information	Oral LD50 (calculated) : >2000 mg/kg	
Carcinogen Status		
NOHSC	No significant ingredient is classified as carcinogenic by NOHSC.	
NTP	No significant ingredient is classified as carcinogenic by NTP.	
IARC	No significant ingredient is classified as carcinogenic by IARC.	
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitizer.	
Skin Sensitisation	Not expected to be a skin sensitizer.	
Germ cell mutagenicity	Not considered to be a mutagenic hazard.	
Reproductive Toxicity	Not considered to be toxic to reproduction.	
STOT-single exposure	Not expected to cause toxicity to a specific target organ.	
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.	
Aspiration Hazard	Not expected to be an aspiration hazard.	

SECTION 12 – ECOLOGICAL INFORMATION		
Eco-toxicity	Toxic to aquatic life with long-lasting effects.	
Product (as sold)	Acute Aquatic Toxicity - 2 /Chronic Aquatic Toxicity - 2	
	Acute Aquatic Toxicity (Calculated) LC50: 4.0 - 240 mg/L.	
Eco-toxicity	Not harmful to aquatic life. LC50 > 100mg/L.	
Product (at use dilution	Acute Aquatic Toxicity (Calculated) LC50: 400 – 24,000 mg/L.	



Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 6 of Total 7

1:100 rinse)	Acute Aquatic Toxicity NOT HAZARDOUS
Persistence and degradability	Biodegradable, based on ingredients.
Bio accumulative potential	No bioaccumulation is expected.
Mobility in soil	Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.
Other adverse effects	Not available
<b>Environmental Protection</b>	Do not discharge this material into waterways.

#### SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

SECTION 14 – TRANSPORT	NFORMATION
Labels Required	
ADG	
IMDG Marine Pollutant	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.
HAZCHEM	2R
Land Transport (ADG)	
UN Number	1719
ADG Proper Shipping	
Name	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE and SODIUM HYPOCHLORITE)
ADG Code Hazard Class	8
HAZCHEM Code	2R
Special Provisions	None allocated.
Packing Group	11
Packaging Method	None allocated.
IERG Number	37
Segregation	<ul> <li>This material is classified as a Class 8 Corrosive Substances Dangerous Goods</li> <li>Class 8 Dangerous Goods are incompatible in a placard load with any of the following: <ul> <li>Class 1: Explosives</li> <li>Division 4.3: Dangerous when wet Substances</li> <li>Division 5.1: Oxidising substances</li> <li>Division 5.2: Organic peroxides</li> <li>Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the</li> <li>Class 7: Radioactive materials unless specifically exempted</li> <li>and are incompatible with food and food packaging in any quantity.</li> </ul> </li> <li>Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong</li> </ul>



Product Name:

AUTODISHWASH ECONOMY

Date of Issue: DEC 2016

Page 7 of Total 7

GHS Classification	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
SUSMP	S6 (POTASSIUM HYDROXIDE)
ADG Code	Class 8
AICS	All ingredients present on AICS.

Version Number Abbreviations and acronyms	<ul> <li>V 2.0 GHS classification</li> <li>ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.</li> <li>AICS: Australian Inventory of Chemical Substances.</li> <li>CAS Number: Chemical Abstracts Service Registry Number.</li> <li>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</li> </ul>
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acronyms	CAS Number: Chemical Abstracts Service Registry Number. GHS: Globally Harmonized System of Classification and Labelling of Chemicals
, .	GHS: Globally Harmonized System of Classification and Labelling of Chemicals
	HATCHERA. An encourage extreme the sector of the sector back which shows information to success and
	<b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency
	services.
	HSIS: Hazardous Substances Information System
	IARC: International Agency for Research on Cancer.
	NOHSC: National Occupational Health and Safety Commission.
	NTP: National Toxicology Program (USA).
	SDS: Safety Data Sheet
	STEL: Short Term Exposure Limit.
	SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.
	TWA: Time Weighted Average.
	UN Number: United Nations Number.
Literature references	Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia)
	GHS Hazardous Chemical Information List (Safe Work Australia)
	Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.
	Global Harmonized System of Classification and Labelling of Chemicals (GHS)
	"Australian Exposure Standards". Safework Australia
	Australian Code For The Transport Of Dangerous Goods By Road And Rail
	Standard for the Uniform Scheduling of Medicines and Poisons
	Material Safety Data Sheets – individual raw materials – Suppliers
	HSIS – Hazardous Substance Information System – National Safe Work Australia Data Base.
	HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base.
Disclaimer	This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of thi product, and in particular how to safely handle and use this product in the workplace. Since the supplier canno anticipate or control the conditions under which the product may be used, each user must, prior to usage, review thi MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or furthe information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.