ANTIBACTERIAL SOLUTION

Safety Data Sheet

Section 1 – Identification

Product Identifier	
Product name	**Antibacterial Solution**
Chemical name	Not Applicable
Synonyms	Not Applicable
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	CH900412, CH900414, CH900422
CAS number	Not Applicable

Recommended use of the chemical and restrictions on use	
Relevant identified uses	Chlorinated Bleach

Details of the manufacturer or importer	
Registered company name	ECOCLEAN UTILITY AGENCIES PTY LTD
Address	26 Notar Drive, Ormeau, Queensland, Australia, 4208
Telephone	(07) 5549 3666
Website	www.ecocleanavantichem.com.au

Emergency Telephone Number	
Association / Organisation	Poisons Information Centre
Emergency telephone number	13 11 26
Other emergency telephone numbers	1300 123 499

Section 2 – Hazard(s) Identification

Classification of the substance or mixture	
Poisons Schedule	Not scheduled

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GHS Classification	• Eye Damage/Irritation Category 2A • Skin Corrosion/Irritation Category 2. (Classification drawn from HCIS)
Label elements	
GHS label pictograms	
Signal word	WARNING
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
AUH031	Contact with acids liberates toxic gas.
Precautionary statement(s): Prevention	
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye protection/ face protection.
Precautionary statement(s): Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P321	Specific treatment (see First Aid Measures on Safety Data Sheet).
P332+P313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.
Precautionary statement(s): Storage	
	None allocated.
Precautionary statement(s): Disposal	
	None allocated.

Section 3 – Composition and Information on Ingredients

Ingredient	CAS Number	Proportion
Sodium Hydroxide	1310-73-2	<10%
Sodium Hypochlorite	7681-52-9	<10%

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

Description of necessary first aid measures	
Eye Contact	If this product comes in contact with eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • If pain persists or recurs seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin contact	If skin contact occurs: • Wash with plenty of soap and water. • Take off contaminated clothing and wash before re-use. • If skin irritation occurs get medical advice.
Inhalation	• Remove to fresh air. • Seek medical advice if symptoms occur.
Ingestion	• Do NOT induce vomiting. • Rinse Mouth. • Give water to drink. • Seek medical advice if symptoms occur.

Medical attention and special treatment	
	• Treat symptomatically.

	• Concentrated solution can cause corneal burns.

Section 5 – Fire Fighting Measures

Suitable extinguishing equipment / media	
	• Not combustible, however, if material is involved in a fire use an extinguisher agent suitable for the surrounding fire.

Special hazards arising from the chemical	
Fire incompatibility	• No specific hazard.

Special protective equipment and precautions for fire fighters	
Fire Fighting	• Decomposes on heating emitting toxic fumes. • Fire fighters to wear self-contained breathing apparatus in the event of a fire.
Fire/Explosion Hazard	• Decomposes on heating emitting toxic fumes.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	
Minor spills	• Ensure suitable equipment and PPE is used. • Dispose of waste in accordance with local rules.
Major spills	• Increase ventilation. • The following PPE is recommended to reduce risk: Safety Glasses, Chemical Resistant Shoes & Gloves, long sleeves / trousers. • Remove non-essential personnel from the area. • Ensure that any products of incompatible classes near the spill are removed.

Environmental precautions	
	• Contain large spills/releases using appropriate bunding or capping. • Prevent entry into drainage systems, sewers and waterways.

Methods and materials for containment and cleaning up	
	• The following PPE is recommended to reduce risk: Safety Glasses, Chemical Resistant Shoes & Gloves, long sleeves / trousers.

Section 7 – Handling and Storage

Precautions for safe handling	
Safe handling	• Use clean dispensing equipment. • Use appropriate PPE. • Always add product to water when diluting.

Conditions for safe storage, including any incompatibilities	
Suitable container	• Store in a cool, dry, well ventilated place. • Store away from foodstuffs. • Store in original containers whenever possible. • Do not store in metal containers without prior approval. • Check container compatibility before transfer. • Keep containers closed when not in use - check regularly for leaks. • Ensure good housekeeping in storage area.
Storage incompatibility	• Store away from incompatible materials described in Section 10.

Section 8 – Exposure controls and personal protection

Control parameters	
Occupational Exposure Limits (OEL)	See Ingredients Data and Emergency Limits below.

Ingredients data

Source	Ingredient	CAS Number	TWA	STEL	Peak	Notes
Australian Exposure Standards	Sodium Hydroxide	1310-73-2	2mg/m^3	None allocated	2mg/m^3	Not Available
	Sodium Hypochlorite	7681-52-9	None allocated	None allocated	None allocated	

Exposure controls	
Appropriate engineering controls	• Use sensible work practices that reduce operator exposure to the product. • Ensure that adequate ventilation is provided, and air is moving constantly in the area of use while drum is open. • Keep containers closed when not in use.

Personal protection	
Eye and face protection	• Wear safety glasses with side shields or chemical goggles if splashing is likely.
Skin protection	• Long sleeves/trousers/chemical resistant apron/chemical resistant boots
Hand protection	• Chemical resistant gloves
Body protection	• Long sleeves/trousers/chemical resistant apron/chemical resistant boots
Respiratory protection	• If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Other protection	• Not usually necessary.
Thermal hazards	• Not available

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Clear yellow liquid

Physical state	Liquid	**Relative density (Water = 1)**	1.02 – 1.05
Odour	Slight Chlorine	**Partition coefficient n-octanol / water**	Not available
Odour threshold	Not available	**Auto-ignition temperature (ºC)**	Not available
pH (as supplied)	Ca. 12	**Decomposition temperature**	Not available
pH (as a solution 1%)	Not applicable	**Viscosity (cSt)**	Not available
Melting point / freezing point (ºC)	Not available	**Molecular weight (g/mol)**	Not available
Initial boiling point and boiling range (ºC)	Not available	**Taste**	Not available
Flash point (ºC)	Not available	**VOC g/L**	Not available
Evaporation rate	Not available	**Volatile Component (%vol)**	Not available

Flammability	Not flammable		
Upper Explosive Limit (%)	Not available		
Lower Explosive Limit (%)	Not available		
Vapour pressure (kPa)	Not available		
Solubility in water (g/L)	Completely miscible		
Vapour density (Air = 1)	Not available		

Section 10 – Stability and Reactivity

Reactivity	• Do not mix with other chemicals without prior approval.
Chemical stability	• Unstable in the presence of incompatible materials. • Product is considered stable. • Hazardous polymerisation will not occur.
Possibility of hazardous reactions	• Chlorine gas may be produced if mixed with acids.
Conditions to avoid	• Avoid contact with food stuffs.
Incompatible materials	• Acids, oxidising substances, reducing substances
Hazardous decomposition products	• Oxygen or chlorine gas may be released upon decomposition.

Section 11 – Toxicological Information

No acute health effects expected if the product is handled in accordance with instructions provided by the manufacturer. Symptoms that may result if the product is mishandled or if overexposure occurs include:

Information on toxicological effects	
Inhaled	Inhalation of fine mists may cause irritation and chemical burns to the respiratory tract and nasal passages
Ingestion	May cause severe irritation to the mouth and digestive tract.
Skin contact	May cause irritation to the skin.
Eyes	Concentrated product causes eye irritation. Eye contact with concentrate will cause stinging, blurring, tearing.
Chronic exposure	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis.
Toxicology Information	Not toxic, based on ingredients. Oral LD50 (ATE calculated) : >20,000 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.
Respiratory sensitisation	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

Acute Aquatic Toxicity	
Eco-toxicity **Product (as sold)**	Harmful to aquatic life with long-lasting effects. Acute Aquatic Toxicity - 3 /Chronic Aquatic Toxicity - 3 Acute Aquatic Toxicity (Calculated) LC50: 7.0 - 500 mg/L.
Eco-toxicity **Product (at use dilution 1:100 rinse)**	Not harmful to aquatic life. LC50 > 100mg/L. Acute Aquatic Toxicity NOT HAZARDOUS. Acute Aquatic Toxicity (Calculated) LC50: 700 - 50000 mg/L.
Chronic Aquatic Toxicity	
Persistence and degradability	Hypochlorites are non-persistent in the environment and there is no accumulation potential as they gradually decompose into a salt and oxygen.
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
Environmental Protection	Do not discharge this material into waterways.

Section 13 – Disposal considerations

Waste treatment methods

Product and Packaging Disposal	Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

Section 14 – Transport Information

Labels Required	
Transport pictogram	Not applicable
Marine Pollutant	No
HAZCHEM	Not applicable

Land Transport (ADG)	
UN Number	None
Packing Group	None
UN Proper shipping name or Technical name	None
Environmental hazard	None
Transport hazard class(es)	Class: None
	Sub risk: None
Special Precautions for user	None
Additional information	Hypochlorite based product. Avoid transportation and storage with incompatible substances.

Section 15 – Regulatory Information

Health, safety and environment regulations	
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	Not scheduled.
ADG Code	Not DG
AICS	All ingredients present on AICS.

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Section 16 – Other Information

Issue Date	3rd July 2020
Version Number	V3.0
Abbreviations and acronyms	ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail. AICS: Australian Inventory of Chemical Substances. CAS Number: Chemical Abstracts Service Registry Number. GHS: Globally Harmonized System of Classification and Labelling of Chemicals HAZCHEM: 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. SUSDP: Standard for the Uniform Scheduling of Drugs 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 (September 2014 – Safe Work Australia) • Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Safe Work Australia. • Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition.
Risk assessments	This SDS is a tool to communicate hazards which can assist you in creating relevant risk assessments for your workplace. There are many variables in determining whether a particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations.
Disclaimer	This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and

	use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.
Copyright	This document is copyright.

Document Revision History		
Revision Version #	**Date**	**Reason for revision**
Draft		GHS format
2.6	17/07/2015	Review by RW (SB)
3.0	3/07/2020	Review by WT

End of SDS