

SAFETY DATA SHEET

PRODUCT NAME: DESTAIN

Classified as hazardous according to the criteria of WHS model Regulations

1.0 IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name: Destain.
Product use: Water based alkaline detergent concentrate for dishwashing.
Not recommended for: For industrial use only. Do not use for any other purpose.
Company Details: Ecowash Solutions Pty Ltd. 50 Chard Road Brookvale. NSW. 2100
Telephone /Fax: Tel +61 02 99389444 Fax +61 02 9905 0979
Emergency Tel: Tel +61 02 99389444

2.0 HAZARDS IDENTIFICATION


WHS:

Dangerous Goods: Classified as dangerous goods according to the ADG code
Hazardous Substances: Classified as hazardous according to the criteria of WHS model Regulations
Hazard Category: Corrosive 8.
Other Information: IF SWALLOWED: Call a POISON CENTRE or doctor/physician.

GHS Classification:

Hazard	Category	Type
Corrosive to Metals	1	Physical
Acute toxicity Oral	3	Health
Skin corrosion	1B	
Serious eye damage	1	
Acute aquatic toxicity	1	Environmental

GHS Label Elements:

Signal Word:	Danger	
Pictogram:	GHS05, GHS09	

Hazard Statements:

H302	Harmful if swallowed
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H402	Toxic to aquatic life
AUH031	Contact with acids will liberate toxic gases.

Precautionary Statements:

Code	Prevention	Code	Response	Code	Storage	Code	Disposal
P102	Keep out of reach of children	P301	If swallowed do not induce vomiting. Rinse mouth with water	P403, P235	Store in a well-ventilated place. Keep cool.	P501	Dispose of in accordance with local regulations
P103	Read label before use	P303, 361, 353	If on skin, remove contaminated clothing, rinse skin with water	P405	Store locked up		
P260	Do not breathe vapours or sprays	P304,340	If inhaled, remove person to source of fresh air				
P234	Keep only in original container						
P270	Do not eat drink or smoke when using this product						
P273	Avoid release to the environment						
P280	Wear protective gloves, and eye protection						

3.0 COMPOSITION / INFORMATION ON INGREDIENTS**General Information on ingredients:**

Product is based on potassium hydroxide, sodium hypochlorite solution, and water soluble salts

Ingredient Name	CAS number	% Weight	Classification	Level	GHS H-Codes
Potassium Hydroxide	1310-58-3	20-30%	Oral toxicity Skin Corrosion Serious eye damage	4 1B 1	H302 H314 H318
Sodium hypochlorite 12.5%	7681-52-9	10-30%	Oral toxicity Skin Corrosion Serious eye damage Environment	3 1 1 1	H302 H314 H318 H400
Sodium silicate	1344-09-8	1-10%	Skin irritation Serious eye irritation	2 2A	H315 H319
Non-hazardous Ingredients	Proprietary	1-5%	Nil	Ni	Nil
Water	N/A	Rem.			

4.0 FIRST AID MEASURES

General Information:	For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a physician. Show this safety data sheet to the doctor in attendance. - Notes to Physician All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician.
Ingestion:	If person is conscious rinse mouth with water. Do not induce vomiting without medical advice. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If victim is conscious, give water to further dilute the chemical.
Skin Contact:	In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation or redness occurs. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a POISON CENTRE or doctor/physician if irritation persists.

5.0 FIRE FIGHTING MEASURES

Extinguishing Media:	Use extinguishing media suitable for surrounding fire situation.
Specific Hazards:	Nil
Advice to Firefighters:	Firefighters should wear Self-Contained Breathing Apparatus and full protective clothing to minimise exposure. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. If safe to do so, remove undamaged containers from fire area
Hazchem Code:	2X

6.0 ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear suitable protective clothing to minimise exposure. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. If safe to do so, remove undamaged containers from area. Bund area using inert absorbent material such as sand, then collect in plastic containers. Alert local authorities if large spills cannot be contained. Dispose of residues to approved land fill in accordance with local regulations. Do not allow residues to enter storm water drains. Clean area using detergent and water to avoid slippery residues.
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7.0 HANDLING AND STORAGE

Handling	Always add product to water, never water to product. It is recommended that all who come into contact with the concentrated material be appropriately covered to avoid skin and eye contact, and maintain good standards of personal hygiene ie. washing hands prior to eating, drinking or going to the toilet. Keep container closed and bung in place when not in use. When handling product ensure good ventilation is maintained through either natural airflow, or mechanical systems.
Storage	Always store in original containers. If container is damaged transfer contents to a PVC or polyethylene container. Never store in a metal container. Keep containers closed when not in use and securely stored to avoid physical damage. Always store away from possible areas of high temperature. Inspect containers regularly for deficiencies such as damage or leaks.

8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	No exposure limit has been established for this product.
Respiratory Protection	Not necessary for general use of the product. Ensure adequate ventilation, especially in confined areas. However, in case of insufficient ventilation, wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Reference should be made to Australian Standards AS/NZS 1715
Eye Protection	Wear safety glasses to avoid accidental splashes.
Hand Protection	Wear impervious vinyl or rubber gloves when handling concentrate.
Body Protection	Light duty impervious rubber or plastic protective clothing or apron is recommended
Engineering Controls	Not required for general use other than good natural ventilation. For confined space work ensure mechanical ventilation is applied.
Other Information	Prevent spills from entering natural waterways.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear water white low viscosity liquid.
Odour	Strong chlorine
Boiling Point	No Data
pH	14
Solubility in Water	Soluble in all proportions
Specific Gravity	1.1 @ 20° C
Physical State	Liquid
Flash Point	N/A
Flammability	Not flammable
Flammability Limit LEL	N/A
Flammability Limit UEL	N/A

10.0 STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage handling and use
Hazardous Polymerisation	Will not occur
Materials to avoid	Strong acids. Contact with aluminium metal.
Hazardous decomposition Products	Possible Carbon mono and dioxides.
Hazardous Reaction	Will emit toxic chlorine gas if mixed with acids.

11.0 TOXICOLOGICAL INFORMATION

Toxicology Information	Not available for this product
Inhalation	No data
Ingestion	Not a likely source of exposure, however, any contact with concentrate will cause irritation. Potential symptoms of ingestion include nausea, diarrhoea, abdominal pain and vomiting.
Skin	Will cause tissue damage on contact with both the concentrate and the diluted product.
Eye	Corrosive to eyes. Will cause tissue damage even with contact with very dilute solutions. Immediate irrigation with water is recommended
Sensitizing effects	None Known. Not expected to be a sensitizer
Chronic effects	No known adverse effects

12.0 ECOLOGICAL INFORMATION

Eco Toxicity	Toxic to the environment.
Aquatic Toxicity	Toxic to aquatic organisms
Biodegradability	Readily biodegradable
Bioaccumulation	No Data available, but not expected to bio-accumulate

13.0 DISPOSAL CONSIDERATIONS

General	Dispose of waste according to federal, E.P.A., state and local regulations, for flammable goods. Assure conformity with all applicable regulations
Containers	Before disposing of empty containers, ensure contents are washed out and collected. Do not disposed of unwashed containers.

14.0 TRANSPORT INFORMATION**Road and Rail Transport**

Classified as dangerous goods according to the ADG code

Proper shipping name Corrosive Liquids. N.O.S.
UN Number 1760

Class	8
Packing Group	II
Hazchem Code	2X

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Proper shipping name	Corrosive Liquids N.O.S.
Un Number	1760
Class – Primary	8
Packing Group	II

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous goods Regulations for transport by air.

Proper shipping name	Corrosive Liquids. N.O.S.
Un Number	1760
Class – Primary	8
Packing Group	II

15.0 REGULATORY INFORMATION

Precautionary Statements	H290	May be corrosive to metals
	H302	Harmful if swallowed
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	H318	Causes serious eye damage
	H402	Toxic to aquatic life
	AUH031	Contact with acids will liberate toxic gases.
Poisons schedule	Schedule 6	
AICS (Australia)	All ingredients are listed in the Australian Inventory of Chemical Substances (AICS).	

16.0 OTHER INFORMATION

This SDS 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 must review this SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Contact Person/Point	Ecowash Solutions. Manager (02) 99389444
SDS History	SDS Creation 10th May 2021 End of SDS...