

FS1 Warewash Detergent

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	FS1 Warewash Detergent	
OTHER NAMES: RECOMMENDED USE:	CDD Warewash Automatic dish washer liq	uid cleaner
SUPPLIER NAME: ADDRESS:	2CARE PRODUCTS 9 Donnor Place Mt Wellington AUCKLAND	
Phone: Fax:	0800 753 753 (09) 574 5999	
Emergency Telephone:	0800 764 766	NEW ZEALAND NATIONAL POISON CENTRE

2. HAZARD(S) IDENTIFICATION

GLOBALLY HARMONISED SYSTEM

HAZARD CLASSIFICATION HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

Corrosive to Metals	Category 1
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Irritation	Category 1
Acute Toxicity (Oral)	Category 5
	Skin Corrosion/Irritation Serious Eye Damage/Irritation

PICTOGRAMS



SIGNAL WORD

DANGER

- HAZARD STATEMENTS H290 May be corrosive to metals.
 - H303 May be harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H318 Causes serious eye damage.

PRECAUTIONARY STATEMENTS

PREVENTION	P102 – Keep out	of reach of children.	
	P103 – Read labe	el before use.	
	P104 – Read Safe	ty Data Sheet before use.	
	P234 – Keep only	v in original container.	
	P260 – Do not br	•	
		nds thoroughly after handling.	
		tective gloves, clothing and eye/face protection.	
	. 200 1100. p. 0		
RESPONSE	P101 – if medical	advice is needed, have product container or label at hand.	
		131 – IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.	
		P353 – IF ON SKIN: Remove all affected clothing IMMEDIATELY. Rinse skin with	
	water/shower.		
		F INHALED: Remove to fresh air and keep at rest in a position comfortable for	
	breathing.		
	-	338 – IF IN EYES: Rinse cautiously for several minutes. REMOVE contact lenses if	
		to do so. Continue rinsing.	
	•	TELY call a POISON CENTRE or Doctor/Physician.	
		SON CENTRE or Doctor/Physician if you feel unwell.	
		itaminated clothing before re-use	
		billage to prevent material damage.	
	1000 / 100010 00		
STORAGE	P405 – Store lock	red up	
		orrosive resistant plastic container with a resistant inner liner.	
DISPOSAL	P501 - Do not le	t this product enter the environment. Do not dispose of in waterways or sewers.	
	Dispose of this material and its container as hazardous waste, via a licensed facility. See local council		
	-	cling information.	
	,	0	
	ENVIRONME	NTAL PROTECTION AUTHORITY (NEW ZEALAND)	
HSNO CLASSIFICATIONS	Toxicity Hazards		
	6.1E	Substances that are acutely toxic.	
	8.1A	Substances that are corrosive to metal.	
	0.1/1		

The information contained in this SDS is specific to the product when handled and used neat. This product when diluted may not require the same control measures as the neat product. Check with your technical representative if in doubt.

Substances that are corrosive to dermal tissue.

Substances that are corrosive to ocular tissue.

POISONS SCHEDULE (AUS): 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

8.2B

8.3A

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Hydroxide	NaOH	1310-73-2	11 - 15%
Non-Hazardous ingredients			Balance

4. FIRST AID MEASURES

INGESTION	DO NOT induce vomiting. If person is conscious give water to drink immediately to dilute the caustic soda. Seek urgent medical attention.
EYE CONTACT	IMMEDIATELY flush eyes with copious amounts of water for at least 30 minutes while holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. Washing must be started within 10 seconds of contact and continued for 30 minutes to prevent permanent injury. Seek immediate medical attention. An Ophthalmology consultation is a must.
SKIN CONTACT	REMOVE contaminated clothing. IMMEDIATELY flush the contaminated skin thoroughly with water for at least 15 minutes. Seek medical attention URGENTLY if burning or irritation persists.
INHALATION	REMOVE victim from source of exposure to fresh air. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek immediate medical assistance if the effects persist Provide emergency. If needed transport to emergency medical facility without delay.
SAFETY MEASURES	Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers. Treat symptomatically.
PHYSICIAN NOTES	Treat symptomatically based on judgement of doctor and individual reactions of patient.

Persons with lung diseases may be at an increased risk due to the toxic effects of this chemical on these organs.

5. FIRE FIGHTING M	IETHODS
GENERAL MEASURES	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
FLAMMABILITY CONDITIONS	Product is not combustible.
EXTINGUISHING MEDIA	Use extinguishing media appropriate for surrounding fire.
HAZARDOUS PRODUCTS OF COMBUSTION	The product is non-combustible; however, the packaging material may burn to emit noxious fumes. Contact with metals may liberate hydrogen gas which is extremely flammable.
SPECIAL FIRE FIGHTING INSTRUCTIONS	DO NOT allow firefighting water to reach waterways, drains or sewers.
PERSONAL PROTECTIVE EQUIPMENT	Wear positive pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (including Helmet, Coat, Trousers, Boots and Gloves) or chemical splash suit.
HAZCHEM CODE	2W

6. SPILLAGE/ACCIDENTAL RELEASE MEASURES

GENERAL RESPONSEClear area of all unprotected personnel. Allow only trained personnel wearing appropriate
protective equipment to be involved in spill response. Contain spill, avoid accidents, clean up
immediately. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt.
Use clean, non-sparking tools and equipment. Shut off all possible sources of ignition.

CAUTION: Contact with metals may liberate hydrogen gas which is extremely flammable.

CLEAN UP PROCEDURES	Mechanically collect as much of the spill as possible. Absorb with sand, earth or clay. Transfer to suitable, labelled corrosion resistant containers and dispose of promptly as hazardous waste. Spill on areas other than pavement (e.g. dirt and sand) may be handled by removing the affected soils and placing in approved containers.
CONTAINMENT	Stop leak if safe to do so. Contain spill immediately.
DECONTAMINATION	Dilute acid (preferably acetic acid may be used to neutralise residual traces of caustic soda) after flushing.
ENVIRONMENTAL PRECAUTIONARY MEASURES	Prevent run off into drains and waterways. If contamination of sewers or waterways has occurred advise the Environmental Protection Authority and/or your local Waste Authority.
EVACUATION CRITERIA	Evacuate all non-essential personnel.
PERSONAL PRECAUTIONARY MEASURES	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

7.	HANDLING AND STORAGE	
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HANDLING	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Do not smoke, eat or drink when handling product. When used in its various applications, the product must be prevented from coming into uncontrolled direct contact with other products such as acids and metals. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
STORAGE	Store upright in the original container in a cool, dry, well-ventilated protected area out of direct sunlight and away from incompatible materials and foodstuffs. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Do not combine part containers of the same product. The floor must be waterproof and anti-slip. A water supply or source must be provided in the place of storage. Emergency showers and eyewashes must be available.
	Keep out of reach of children.
CONTAINER	Store in original packaging as approved by manufacturer. Do not store in Aluminium or galvanised containers nor use die cast zinc or aluminium fittings (e.g. valves and bungs.)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL	Sodium Hydroxide – WES-Ceiling 2mg/m ³ (WorkSafe New Zealand).
EXPOSURE LIMITS	No information available.
BIOLOGICAL LIMITS	No information available on biological limit values for this product.

ENGINEERING MEASURES	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.	
PERSONAL PROTECTIVE EQUIPMENT	RESPIRATOR	If determined an inhalation risk is present. Use a P2 grade disposable mask which conforms to the requirements of AS1715/1716).
	EYES	Use splash proof safety goggles, and/or if necessary an appropriate full face shield that conform to AS1336/1337.
	HANDS	Any Gloves approved for chemical hazards that conform to AS2161.
	CLOTHING	Trousers, Long sleeved shirt and closed shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE	Liquid
APPEARANCE	Free flowing
COLOUR	Red
ODOUR	Odourless
рН	12.0 – 13.0
DENSITY	1.176g/mL @20°C
VAPOUR PRESSURE	No Data Available
VAPOUR DENSITY	No Data Available
BOILING POINT	No Data Available
FREEZING POINT	No Data Available
SOLUBILITY	Complete in water
SHELF LIFE	2 years from manufacturing date (when stored as directed)

10. STABILITY AND REACTIVITY

GENERAL INFORMATION	Corrosive Liquid.
CHEMICAL STABILITY	The substance is stable under normal environmental and foreseeable conditions of temperature and pressure during storage and handling.
CONDITIONS TO AVOID	Avoid contact with foodstuffs. Do not combine part drums of the same product.
MATERIALS TO AVOID	Incompatible with ammonium salts, aluminium, tin, and zinc.
HAZARDOUS DECOMPOSITION PRODUCTS	The packaging material may burn to emit noxious fumes. Contact with metals may liberate hydrogen gas.

11. TOXICOLOGICAL INFORMATION

ORAL	No information available.
DERMAL	Irritation data: Skin, Mouse: 500 mg/24hr. Causes severe skin burns. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection.
INHALATION	No Information available.
EYE	Eye, Rabbit: 40 μg/24hr Causes serious eye damage. Can cause ulceration of the conjunctiva and cornea.
CARCINOGENICITY	No information available.
MUTAGENICITY	No information available.
REPRODUCTIVE	No information available.
TARGET ORGAN	Causes damage to organs. No LD ₅₀ Information available.
LONG TERM	No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY No information available.

PERSISTENCE /Readily biodegradable.DEGRADABILITYOther relevant information Abiotic degradation: NaOH is a strong alkaline substance that dissociates
completely in water to Na⁺ and OH⁻. High water solubility and low vapour pressure indicate that
NaOH will be found predominantly in aquatic environment. This implies that it will not adsorb on
particulate matter or surfaces. Atmospheric emissions as aerosols are rapidly neutralized by carbon
dioxide and the salts will be washed out by rain.

MOBILITY High water solubility and mobility.

ENVIRONMENTAL FATE Do not allow drainage into sewer, streams or storm water systems.

BIOACCUMULATIONSodium Hydroxide does not bioaccumulate in organism. In addition, sodium is a naturally occurring
element that is prevalent in the environment and to which organism are exposed regularly for which
they have some capacity to regulate the concentration in the organism.

ENVIRONMENTAL IMPACT No information available.

13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATIONDispose of in accordance with all local, regional and national regulations. All empty packaging should
be disposed of in accordance with local, regional, and national regulations or recycled/reconditioned
at an approved facility.SPECIAL PRECAUTIONS
FOR LANDFILLContainers should be triple rinsed then rinsed with dilute hydrochloric acid to neutralise sodium
hydroxide residues which should be added slowly by trained staff wearing proper protection.
Disposal of this product must comply with any requirements of the Resource Management Act for
which approval should be sought from the Regional Authority.

14. TRANSPORT INFORMATION

LAND TRANSPORT NEW ZEALAND (NZS5433)

PROPER SHIPPING NAME	Sodium Hydroxide Solution
UN NUMBER	1824
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2W
EPG	37 Toxic and/or Corrosive Substances Non-Combustible
SPECIAL PROVISIONS	No Data Available

SEA TRANSPORT (IMDG)

PROPER SHIPPING NAME	Sodium Hydroxide Solution
UN NUMBER	1824
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2W
EMS	F-A, S-B
MARINE POLLUTANT	No Data Available
SPECIAL PROVISIONS	No Data Available

AIR TRANSPORT (IATA)

PROPER SHIPPING NAME	Sodium Hydroxide Solution
UN NUMBER	1824
CLASS	8 – Corrosive Substances
SUBSIDIARY RISK	No Data Available
PACKAGING GROUP	III
HAZCHEM	2W
EPG	37 Toxic and/or Corrosive Substances Non-Combustible
SPECIAL PROVISIONS	No Data Available

15. REGULATORY INFORMATION

ENVIRONMENTAL PROTECTION AUTHORITY (NEW ZEALAND)

Hazardous Substances & New Organisms Act 1996

APPROVAL CODE	HSR002526 – Cleaning Products (Corrosive) Group Standard 2006
HSNO CLASSIFICATIONS	6.1E, 8.1A, 8.2B, 8.3A
APPROVED HANDLER	Not Required
NZIOC	Listed

16. OTHER INFORMATION

REVISION NUMBER ISSUE DATE In any event the review and	1 – New Issue 12 th May 2017 if necessary re-is	sue of an SDS shall be no longer than 5 years after the last date of issue.
KEY/LEGEND	AS1336/1337	Industrial Eye Protection – Metric Units (Standards Australia).

AS1715/1716 Respiratory Protection Devices – Metric Units (Standards Australia).

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	AS2161	Industrial Safety Gloves and Mittens (Standards Australia).
	CAS	Chemical Abstracts Service.
	EC ₅₀	Concentration which induces a response halfway between the baseline and maximum.
	EMS	IMDG Emergency Schedule.
	EPG	Emergency Procedures Guide.
	GHS	Globally Harmonised System.
	HSNO	Hazardous Substances and New Organisms.
	IMDG	International Maritime Dangerous Goods.
	LC ₅₀	Concentration required to kill half the members of a tested population after a specified duration.
	LD ₅₀	Dosage required to kill half the members of a tested population after a specified duration.
	NOEC	No Observed Effect Concentration.
	NZIOC	New Zealand Inventory of Chemicals.
	SDS	Safety Data Sheet.
	UN No.	UN Nations Number.
	WES-Ceiling	Concentration that should not be exceeded at any time during any part of the working day.
REFERENCES	Workplace Expo	sure Standards-and Biological Exposure Indices – WorkSafe New Zealand.
	TOXNET – Chem	IDPlus Database.
	IMDG Appendix	B List of Marine Pollutants.
	IMDG Emergend	cy Fire and Spill Codes.
	UN Recommend	lations on the Transport of Dangerous Goods Volume 1 (17 th Edition) Part 3.

This SDS has been prepared from current technical data and summarises at the date of issue our best knowledge of the health and safety information of the product, and in particular how to safely handle and use the product in the work place. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact the company.

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