SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Supplier

Product Name:	ALKALI CLEAN
Proper Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Recommended use:	Hard Surface Cleaner/NZFSA C31 Cleaner
Restriction of use:	Refer to Section 15
Company Details	Marketing Chemicals Ltd
Address:	7 Rymer Place, Mangere Bridge
	Auckland. New Zealand
Telephone:	+64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]
Fax:	+64 9 634 3864
Emergency Telephone:	+64 274 340990(24 hours)
	National Poison Centre(24 hours): 0800 POISON [764 766]
Date of preparation	29 August 2024 v2

Section 2: Hazard Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Cleaning Products (Corrosive) – HSR002526

Pictograms

Signal Word: **DANGER**

GHS Category	Hazard Code	Hazard Statement
Corrosive to metals Cat. 1	H290	May be corrosive to metals.
Skin corrosion Cat. 1C	H314	Causes severe skin burns and eye damage.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
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.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3: Composition/Information on Ingredients

Name	% by Wt.	CAS Number
Sodium Hydroxide	< 10.0	1310-73-2
Sequestering Agents/Medium Surfactants	< 10.0	9016-45-9
Water	Up to 100	7732-18-5

Section 4: First Aid Measures

Eyes: If medical advice is needed, have product container or label at hand. Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion	Not applicable.
Inhalation	Not applicable.
Skin	Causes severe skin burns.
Eyes	Causes serious eye damage.

For Further Information Telephone (24 Hours) The National Poison Centre: 0800 Poison [764 766]

Section 5: Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from products	Explosive hydrogen gas can be liberated on contact with metals, such as zinc, tin or aluminium. Hydrogen gas can result in explosive hazards in confined spaces.
Suitable Extinguishing media	All
Precautions for firefighters and special protective clothing	Liquid tight chemical suit to protect against the hazardous effects is recommended.
HAZCHEM Code	**2X**

Section 6: Accidental Release Measures

Wear PPE as detailed in Section 8. Evacuate unnecessary personnel.

Stop the leak, if possible. Ventilate the space involved. Contain, vacuum up, place in non-sparking container for disposal. Prevent waterway contamination. Construct a dike to prevent spreading. Collect run-off and transfer to drums or tanks for later disposal.

Section 7: Handling And Storage

Handling:

- Read label before use.
- Keep only in original container.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.
- Use only with adequate ventilation.
- Do not taste or swallow.

- To avoid rapid temperature rise, violent spattering, or explosive eruptions always add caustic to water when mixing. Never add water to a caustic when mixing. Add small amounts of product slowly and evenly over single addition, Water should not exceed 70^0 C during addition.

Storage:

- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.
- Keep out of reach of children
- Do NOT store near strong acids.
- Store away from incompatible materials listed in Section 10.

Section 8: Exposure Controls/Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA		STEL	
Substance	**ppm**	**mg/m^3**	**ppm**	**mg/m^3**
Sodium hydroxide [1310-73-2]	Ceiling 2 mg/m3			

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

Personal Protection Equipment

Engineering Controls:	General (mechanical) room ventilation is considered satisfactory in enclosed spaces.
Eye / Face Protection:	Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.
Body Protection:	PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
Respiratory Protection:	Avoid breathing vapour or mist. Use NIOSH approved respiratory protection equipment appropriate to the material

Section 9: Physical And Chemical Properties

Appearance	Liquid
Colour	Clear Red
Odour	Not available
Odour Threshold	Not available
pH	13
Boiling Point	>100^{0}C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available

Specific Gravity	1.16
Solubility in Water	Completely
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable
Evaporation Rate	Not available

Section 10: Stability And Reactivity

Stability of the Substance: Stable under normal conditions

Conditions to avoid: None known.

Materials to avoid: Strong acids

Hazardous Decomposition Products: Explosive hydrogen gas can be liberated on contact with metals, such as zinc, tin or aluminium. Hydrogen gas can result in explosive hazards in confined spaces.

Conditions Contributing to Hazardous Polymerization None known.

Section 11: Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious damage to eyes. RESULT: Contact with the eyes causes disintegration and sloughing of conjunctiva and corneal epithelium, corneal opacification, marked edema, and ulceration; After 7 to 13 days either gradual recovery begins, or there is progression of ulceration and corneal opacification. Complications of severe eye burns are symblepharon (adhesion of the lid to the eyeball) with overgrowth of the cornea by a vascularized membrane, progressive or recurrent corneal ulceration, and permanent corneal opacification.
Skin	Causes severe skin burns and eye damage.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12: Ecological Information

Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

SPECIES: Oncorhynchus mykiss (Fish, fresh water) ;TYPE OF EXPOSURE: Static; DURATION: 96 hr ENDPOINT: LC50; VALUE: 45.4 mg/l

SPECIES: Ceriodaphnia dubia Water flea; TYPE OF EXPOSURE: ;DURATION: 48 hr ENDPOINT: EC50 ;VALUE: 40.38 mg/l

Section 13: Disposal Considerations

Disposal Method: Empty packaging completely prior to disposal. Do not pierce or burn, even after use. Place any recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations.

Precautions: Ensure waste container containing recovered product or contaminated spill media is labelled “Hazardous Waste – Corrosive”. Do not allow to enter waterways if possible.

Section 14: Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Road, Rail, Sea and Air Transport

UN No	3266
Class - Primary	8
Packing Group	II
Proper Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Marine Pollutant	Yes
Special Provisions	If the product’s individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15: Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Cleaning Products (Corrosive) - HSR002526

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000 kg
Emergency Response Plan	1000 kg
Secondary Containment	1000 kg
Restriction of Use	None

Section 16: Other Information

Glossary

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

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