

# SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

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

Product: **Clean All**  
 Product Use: Multipurpose Cleaner  
 Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**  
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**0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 6 September 2019

## Section 2: Hazard Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: **Cleaning Products (Corrosive, Toxic[6.7]) - HSR0002588**

### Pictograms:



Irritant



Chronic



Corrosive



Ecotoxic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1E (dermal)	H313	May be harmful in contact with skin.	Acute Tox. 5
6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Resp. Sens. 1
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.7B	H351	Suspected of causing cancer.	Carc. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
8.1A	H290	May be corrosive to metals.	Met. Corr. 1
8.2B	H314	Causes severe skin burns and eye damage.	Skin Corr. 1B
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.

P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original container.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.

<b>Response code</b>	<b>Response Statement</b>
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P341	IF INHALED: If breathing is difficult, 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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Refer to Section 13.

### Section 3: Composition/Information on Ingredients

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Sodium meta-Silicate, Pentahydrate	2.0 – 10.0	1021379-3
Water Conditioner	2.0 – 10.0	5064-31-3
Sodium Hydroxide	2.0 – 5.0	1310-73-2
Quaternary Ammonium Chloride	2.0 – 5.0	8001-54-5
Non-hazardous materials	To Bal	

### Section 4: First Aid Measures

Routes of Exposure:

If in Eyes                      Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on 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.

If Swallowed	Rinse mouth. Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Immediately call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Skin</b>	May be harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.
<b>Eyes</b>	Causes serious eye damage.
<b>Chronic</b>	Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

**Section 5: Fire Fighting Measures**

<b>Hazard Type</b>	Non Flammable Liquid or vapour
<b>Hazards from combustion products</b>	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.
<b>Suitable Extinguishing media</b>	Use appropriate media based on surrounding materials.
<b>Precautions for firefighters and special protective clothing</b>	Wear full protective gear.
<b>HAZCHEM CODE</b>	<b>2X</b>

**Section 6: Accidental Release Measures**

Wear protective clothing as detailed in Section 8. Evacuate all 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**

**PROCEDURE FOR HANDLING**

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep only in original container.
- Do not breathe fumes or vapours.
- Keep container closed.
- Wash hands thoroughly after handling.
- 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 700 C during addition.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.

- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.

### STORAGE REQUIREMENTS

- Store locked up.
- Store in a corrosive resistant container with a resistant inner liner.
- Do not store near strong acids.

## Section 8: Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Sodium hydroxide [1310-73-2]				Ceiling 2 mg/m <sup>3</sup>

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 2017 9TH EDITION.

### Personal Protection Equipment



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

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Clear thin
<b>Odour</b>	Orange
<b>Odour Threshold</b>	Not available
<b>pH</b>	11-13
<b>Boiling Point</b>	100°C
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Non Flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	1.04
<b>Solubility in Water</b>	Completely
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available

<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not applicable
<b>Evaporation Rate</b>	Not available

## Section 10: Stability and Reactivity

<b>Stability of the Substance:</b>	Stable under normal storage and use conditions.
<b>Conditions to avoid:</b>	Heat
<b>Materials to avoid:</b>	Strong acids.
<b>Hazardous Decomposition Products:</b>	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.
<b>Conditions Contributing to Hazardous Polymerization</b>	Not known.

## Section 11: Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed. Mixture rules calculation = LD50 = 1121mg/kg
<b>Dermal</b>	May be harmful in contact with skin. Mixture rules calculation = LD50 = 4909mg/kg
<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. In acute cases pulmonary oedema resulting from aspiration, dyspnea and cyanosis due to paralysis of the respiratory muscles, bronchoconstriction, cough can occur.
<b>Eye</b>	Causes serious eye damage. 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.
<b>Skin</b>	Causes severe skin burns. May cause an allergic skin reaction. SPECIES: Rabbit; ENDPOINT: LD50; VALUE: 1350 mg/kg

### Chronic Effects:

<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	May causes damage to organs through prolonged or repeated exposure.

### Individual component information:

#### Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Sodium Metasilicate (Cas No 10213-79-3)	1280mg/kg (mice)	-	-
Sodium Hydroxide (Cas No 1310-73-2)	-	1350mg/kg (rabbit)	-

## Section 12: Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects  
9.3C = Harmful to terrestrial vertebrates.

Environmental Precautions: Do not allow product to wash into waterways.

<b>Persistence and degradability</b>	Expected to be biodegradable
<b>Bioaccumulation</b>	not bio accumulative
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	Oxidized rapidly by photochemical reactions in air.

**Individual component information (Please refer to [www.epa.govt.co.nz](http://www.epa.govt.co.nz) for full details):**

**Sodium hydroxide (Cas No 1310-73-2):**

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Oncorhynchus mykiss (Fish, fresh water)	96 hr	45.4 mg/L
Acute aquatic, Crustacean	Ceriodaphnia dubia Water flea	48 hr	40.38 mg/L
Bioaccumulative	No		
Rapidly Degradable	Yes		

**Quaternary Ammonium Chloride (Cas No 8001-54-5):**

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Fathead Minnow (Pimephales promelas)	96 hr	0.28 mg/L
Chronic aquatic, fish	Fathead Minnow (Pimephales promelas)	34 days	0.0322 mg/L
Crustacean	Daphnia magna (Water flea)	48 hr	0.0059mg/L
Algal	Scenedesmus pannonicus (Green algae)	72hr (static)	0.08mg/L
Bioaccumulative	No		
Rapidly Degradable	Yes		

## Section 13: Disposal Considerations

### Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Corrosive, Carcinogenic, Ecotoxic" and that the label also has the Corrosive, Chronic and Eco toxic Pictogram, waste type identifier, and the business name, address, and phone number.

**Precautions or methods to avoid:** Avoid release to the environment.

## Section 14: Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012



### Road, Rail, Sea and Air Transport

<b>UN No</b>	3266
<b>Class - Primary</b>	8
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
<b>Marine Pollutant</b>	Yes

<b>Special Provisions</b>	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.
<b>Hazchem Code</b>	2X

## Section 15: Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Cleaning Product(Corrosive, Toxic[6.7]) - HSR002588

HSNO Classification: 6.1D(oral), 6.1E(dermal), 6.5A(respiratory), 6.5B, 6.7B, 6.9B, 8.1A, 8.2B, 8.3A, 9.1B, 9.3C

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	500L(>5L), 1500L(<5L)< 250L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (8.2B)
Emergency Response Plan	1000L (8.2B, 9.1B)
Secondary Containment	1000L(8.2B, 9.1B)
Restriction of Use	None known

## Section 16: Other Information

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
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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