



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: **Citrus Cleaner**
Product Use: Cleaner/Sanitiser
Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**
Address: 2 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 No: **+64 274 736008(24 hours)**
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 (subsidiary) - HSR0002530**

Pictograms:



Irritant



Corrosive



Ecotoxic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2C	H423	Harmful to the soil environment.	
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing fumes
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing in 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.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code **Storage Statement**
None allocated

Disposal Code **Disposal Statement**
P501 Refer to Section 13.

Section 3: Composition/Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Biodegradable Non Ionic Surfactant	5.0 – 10.0	9016-45-9
Quaternary Ammonium Chloride	5.0 – 10.0	61789-71-7
D'Limonene	2.5 – 10.0	5989-27-5
Sodium Metasilicate	2.0 – 5.0	10213-79-3
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. If skin irritation or rash occurs: Get medical advice/attention.
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:

Ingestion	May be harmful if swallowed.
Inhalation	Not applicable
Skin	Causes skin irritation. May cause an allergic skin reaction.
Eyes	Causes serious eye damage.
Chronic	Not applicable.

Section 5: Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from combustion products	Burning can produce Carbon Monoxide &/or Carbon Dioxide
Suitable Extinguishing media	Use appropriate media suitable to surrounding materials.
Precautions for firefighters and special protective clothing	Wear full protective gear.
HAZCHEM CODE	3Z

Section 6: Accidental Release Measures

Wear protective clothing as detailed in Section 8. Evacuate all unnecessary personnel. Stop the leak, if possible.

Do not allow to enter waterways.

Soak up with absorbent material. Collect in a container for disposal. Dispose as per Section 13.

Section 7: Handling and Storage

PROCEDURE FOR HANDLING

- Read label before use.
- Avoid breathing fumes or vapours.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Check regularly for spills.

STORAGE REQUIREMENTS

- Store in a cool, well ventilated placed, out of the reach of children.
- Large quantities should be stored in a bunded area.
- Store in original container.
- Keep away from acids and oxidizing agents.
- Prevent vapours from collecting in low-lying or enclosed spaces.
- Protect from physical damage.

Section 8: Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

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



Engineering Controls:	Local ventilation
Eye / Face Protection:	Full face protection
Body Protection:	Protective gloves and overalls.
Respiratory Protection:	Not required.

Section 9: Physical and Chemical Properties

Appearance	Liquid
Colour	Clear Orange
Odour	Not available
Odour Threshold	Not available
pH	9
Boiling Point	>100°C
Melting Point	Not available
Freezing Point	<0°
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.07
Solubility in Water	Complete
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 storage and use conditions.
Conditions to avoid:	None known.
Materials to avoid:	Oxidising agents and acids
Hazardous Decomposition Products:	Burning can produce Carbon Monoxide &/or Carbon Dioxide
Conditions Contributing to Hazardous Polymerization	Not known.

Section 11: Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed. Mixture rules calculation = LD50 = 3328mg/kg
Dermal	Not applicable
Inhalation	Not applicable
Eye	Causes serious eye damage.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

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

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Sodium Metasilicate (Cas No 10213-79-3)	1280mg/kg (mice)	-	-
Limonene, D- (Cas No 5989-27-5)	4400mg/kg(rat)	-	-

Section 12: Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects
 9.2C = Harmful to the soil environment.
 9.3C = Harmful to terrestrial vertebrates.

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

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

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Limonene, D- (Cas No 5989-27-5)

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Pimephales promelas Fathead minnow	96 hr	0.702 mg/L
Acute aquatic, Crustacean	Daphnia magna	48 hr	0.421 mg/L
Bioaccumulative	Yes		
Rapidly Degradable	Yes		

Section 13: Disposal Considerations

Disposal Method:

Triple rinse container and dispose according to Local Regulations.

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

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S
Marine Pollutant	Yes

Product Name: Citrus Cleaner
 Date of SDS: 6 September 2019

Prepared by: Technical Compliance Consultants (NZ) Ltd
 Tel: 64 9 475 5240 www.techcomp.co.nz

Special Provisions	If the product's individual container is below 5L, 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.
Hazchem Code	3Z

Section 15: Regulatory Information

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

EPA Approval Code: Cleaning Product(subsidiary) - HSR002530

HSNO Classification: 6.1E(oral), 6.3A, 6.5B, 8.3A, 9.1B, 9.2C, 9.3C

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	1000kg (9.1B)
Emergency Response Plan	1000kg (9.1B)
Secondary Containment	1000kg (9.1B)
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 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.

For General Information : Marketing Chemicals Ltd,

Phone: +64 (09) 634 3862 / +64 (0)27 473 6008

Fax : +64 (09) 634 3864

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