

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: **Carbon Off**
 Product Use: Immersion De-carbonising Chemical
 Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**
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Emergency No: **+64 274 736008(24 hours)**
0800 764 766 (National Poison Centre)

Date of SDS Preparation: 25 November 2019 v2

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:



Toxic



Chronic



Corrosive

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1D (dermal)	H312	Harmful in contact with skin.	Acute Tox. 4
6.6B	H341	Suspected of causing genetic defects.	Muta. 2
6.7B	H351	Suspected of causing cancer.	Carc. 2
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9A	H372	Causes damage to organs through prolonged or repeated exposure.	STOT RE 1
8.2B	H314	Causes severe skin burns and eye damage.	Skin Corr. 1B
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.1D	H413	May cause long lasting harmful effects to aquatic life.	Aquatic Chronic 4
9.2D	H423	Harmful to the soil environment.	-
9.3B	H432	Toxic to terrestrial vertebrates.	-

Prevention Code P102
Prevention Statement 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.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

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.
P363	Wash contaminated clothing before reuse.
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.
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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3: Composition/Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Dichloromethane	20 - 50	75-09-2
Tall Oil Fatty Acid	20 - 40	8002-09-3
Phenol	15 - 25	108-95-2
Caustic Soda	0.5 - 2	1310-73-2
Water	To bal	7732-18-5

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. Immediately call a POISON CENTER or doctor/physician.
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. 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	Harmful if swallowed.
Inhalation	Not applicable
Skin	Harmful in contact with skin. Causes skin burns.
Eyes	Causes serious eye damage.
Chronic	Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Section 5: Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from combustion products	None known.
Suitable Extinguishing media	Water fog, CO2 or Dry Powder
Precautions for firefighters and special protective clothing	Full respiration equipment is advisable
HAZCHEM CODE	2X

Section 6: Accidental Release Measures

Wear protective clothing as detailed in Section 8. Evacuate all unnecessary personnel.

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.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves/protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

STORAGE REQUIREMENTS

- Store locked up.
- Store away from incompatible materials listed in Section 10.
- Store in a well-ventilated place.
- Keep container tightly closed.
- Protect from physical damage.
- Clean up all spills immediately to prevent secondary accidents.

Section 8: Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Dichloromethane [75-09-2]	50	174	-	-
Phenol [108-95-2]	5	-	-	-
Sodium hydroxide [1310-73-2]	Ceiling 2			

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:	General (mechanical) room ventilation is considered satisfactory in enclosed spaces.
Eye / Face Protection:	Safety Glasses/Full face masks
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 exposure to spray mist. Suitable respiratory protection should be worn.

Section 9: Physical and Chemical Properties

Appearance	Liquid
Colour	Clear Yellow-Brown
Odour	Chlorinated Solvent Odour
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
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	Emulsifies
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable
% Volatiles	87

Section 10: Stability and Reactivity

Stability of the Substance:	Stable under normal storage and use conditions.
Conditions to avoid:	Heat and sparks

Materials to avoid: Oxidising agents and heat sources

Hazardous Decomposition Products: None known.

Conditions Contributing to Hazardous Polymerization Will not polymerise

Section 11: Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed.
Dermal	Harmful in contact with skin.
Inhalation	Not applicable.
Eye	Causes severe eye damage.
Skin	Causes skin burns.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Dichloromethane (Cas No 75-09-2)	1410mg/kg (rat)	-	-
Phenol (Cas No 108-95-2)	100mg/kg(cat)	525 mg/kg (rat)	0.117mg/l (mouse) Dust/mist
Caustic Soda (Cas No 1310-73-2)	-	1350mg/kg (rabbit)	-

Section 12: Ecotoxicological Information

HSNO Classes: 9.1D = May cause long lasting harmful effects to aquatic life.
9.2D = Harmful to the soil environment.
9.3B = Toxic 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):

Caustic Soda (Cas No 1310-73-2)

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

Phenol (Cas No 108-95-2)

Route	Species	Duration	Value LC50/EC50
Aquatic, fish	Oncorhynchus mykiss (Fish, fresh water)	96 hr	8.9 mg/L
Acute Aquatic, Crustacean	Ceriodaphnia dubia Water flea	48 hr	3.1 mg/L
Chronic Aquatic, Crustacean	Daphnia magna (Crustacea)	16 days	0.16mg/l
Algae	Selenastrum capricornutum (Algae)	96 hr	150mg/l
Bioaccumulative	No		
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	1760
Class - Primary	8
Packing Group	II
Proper Shipping Name	CORROSIVE LIQUID N.O.S (Phenol, Caustic Soda)
Marine Pollutant	No
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 2017

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

HSNO Classification: 6.1D(oral)(dermal), 6.6B, 6.7B, 6.8B, 6.9A/B, 8.2B, 8.3A, 9.1D, 9.2D, 9.3B

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	250L (8.2B)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (8.2B)
Emergency Response Plan	1000L(8.2B)
Secondary Containment	1000L (8.2B)
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.

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