



CALMARC CHEMICALS

MANUFACTURING INDUSTRIAL CHEMISTS

16 GOONGARRIE ST, BAYSWATER WA 6053
TELEPHONE: Bus. (08) 93782022, Mobile: 0418 956 860 A/H (08) 9381 5052
Facsimile: (08) 9377 2575 A.C.N 009 026 386. ABN 18 340 289 669

THIS PRODUCT IS A HAZARDOUS SUBSTANCE AS DEFINED BY SAFE WORK AUSTRALIA

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: DYNACLENE
Manufacture Code: DNCL
Emergency Telephone No: (08) 9378 2022
0408 940 669
(08) 9381 5052
13 11 26(all hours)
Email: accounts@calmarc.com.au
Creation Date: 18 October 2016
SDS Responsibility: Calmarc Chemical's Technical Sales (08) 9378 2022
0408 940 669
Other Information: This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibilities for products sold are subject to our standard terms and conditions. A copy of our terms and conditions and technical information pamphlets are available upon request.

DISCLAIMER
This information is based on the present level of knowledge about safety requirements not specific properties. The listed data is therefore subject to change and revision without notice and cannot be guaranteed. No warranty expressed or implied is made as to accuracy, reliability or completeness of the detail in this document.

SECTION 2 – HAZARDS INFORMATION/EMERGENCY OVERVIEW

Globally Harmonised System
Hazard Classification: Hazardous according to the criteria of the Globally Harmonised System of classification and labelling of Chemicals (GHS).

Signal Word: DANGER

Major Health Hazards: Causes burns and irritation to any area of contact. Ingredients are not listed as carcinogenic by Safe Work Australia.

Physical Data: Product is corrosive.



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ACUTE HEALTH EFFECTS

Swallowed

Toxic if swallowed. May cause nausea, vomiting and intense thirst. Causes severe burns to the mouth, throat and stomach. May cause immediate pain and ulceration to all membranes and tissues. Corrosion of the stomach may lead within a few hours or a few days to gastric perforation and peritonitis. Late oesophageal, gastric and pyloric strictures and stenoses should be anticipated.

Eye

Causes burns. May cause extensive necrosis of the conjunctiva and corneal epithelium, resulting in perforation or opaque scarring.

Skin

Causes burns. May cause immediate pain and ulceration of all membranes and tissues.

Inhalation

Irritating to the mucous membranes and respiratory tract. Chemical pneumonitis can be expected after respiratory exposure to acid vapours or after tracheobronchial aspiration and ingested acid. Death may occur due to complication such as circulatory shock, asphyxia due to laryngeal edema, perforation of the stomach with peritonitis, gastric haemorrhage, infection or anition due to stricture formation.

Chronic

Prolonged exposure may cause bronchitis, pneumonia and pulmonary oedema.

SPECIAL HEALTH EFFECT

Environmental

Do not allow products to enter drinking water, rivers and streams as it may harm vegetation and wildlife.

GHS Classification	Pictogram	Hazard Statement
Corrosive Category 1 & 1B		H314 – Causes severe skin burns and eye damage.
Specific Target Organ Toxicity Category 3		H331 – Toxic if inhaled.

GENERAL

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.



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PREVENTATIVE	
P234	Keep only in original container.
P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P261	Avoid breathing vapours/spray.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing and eye/face protection.
RESPONSE	
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P331	Call a POISON CENTRE or doctor.
P321	Specific treatment (see this PDS)
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.
P363	Wash contaminated clothing before reuse.
P310	Immediately call a POISON CENTRE or doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390	Absorb spillage to prevent material damage.
STORAGE	
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P233	Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant polypropylene container with a resistant liner.
P402	Store in a dry place.
DISPOSAL	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

HSNO Classifications	Health	6.1B	Substances that are acutely toxic.
	Hazards	8.1A	Substances that are corrosive to metals.
		8.2B	Substances that are corrosive to dermal tissue.
Environmental Hazards		8.3A	Substances that are corrosive to ocular tissue.
		9.1D	Slightly harmful to aquatic environment.
		9.3C	Harmful to terrestrial vertebrates.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONCENTRATION
Hydrochloride salt	506-89-8	10-30% m/m
Tensides		10-30% m/m
Water	7732-18-5	30-60% m/m



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SECTION 4 – FIRST AID MEASURES

Swallowed	Immediately rinse mouth with water. Give plenty of water to drink. DO NOT induce vomiting. If vomiting occurs, give more water to achieve effective dilution. Seek medical assistance. Poisons information Telephone 13 11 26(all hours).
Eye	Immediately irrigate with copious amounts of water for at least 15 minutes. Hold eyelids open while rinsing. Seek immediate medical assistance.
Skin	Immediately wash contaminated skin area with plenty of water. Remove contaminated clothing and wash if being reused. Seek medical attention. Treat skin with 1% Sodium Bicarbonate solution to neutralise acid residue.
Inhalation	Remove patient from contaminated area. Loosen clothing. Keep patient warm and relaxed until full recovery. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have trained person give oxygen through a facemask. If breathing has stopped, apply artificial respiration. If cardiac arrest occurs apply external cardiac massage. Seek medical advice if symptoms persevere.
Advice to Doctor	Treat symptomatically as for strong acids.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion	Not combustible but slippery when wet. Severe fire: use water or water fog.
Ventilation	Use only in a well-ventilated area. Mechanical ventilation or forced draught over the work area is recommended. Avoid generating or inhaling mists or aerosols. Keep away from glass.
Autoignition Temperature	Does not ignite.
Source of Ignition	Does not ignite.
Flash Point	Not Flammable.
Extinguishing Media	Water fog, water spray.
Special Fire Fighting Procedures	Wear acid resistant chemical splash suit.
Decomposition Products	Severe fire, after evaporation, emits toxic acid fumes.
Reactivity	The solution is a strong acid and will react violently with metals, oxidants and bases.
Protection of Firefighters	Wear safety boots, non-flammable overalls, gloves, safety hat (with face shield) or firefighter helmet (preferred), goggles and self-contained breathing apparatus. All skin areas should be covered. Block all drains and water courses to inhibit any spillage into them.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal	<p>Slippery when wet. Use hydrated lime or alkalis to neutralise. Place the excess hydrated lime used for neutralisation in a plastic bag and dispose at an industrial tip site. Mop up the remaining residue and wash to waste. Avoid washing into waterways. Rinse area with water and collect using a mop or wet vacuum cleaner.</p> <p>Launder all contaminated clothing or wiping rags before re-use.</p>
Cleaning Protection	<p>Open up the area where spill or leak has occurred to ventilate direct vapours away. Have absorbents, such as vermiculite, attapulgit, cardboard or sand on hand to control flow of the spilled mobile product. Use wet vacuum cleaner or mop to collect any small spills.</p>

SECTION 7 – HANDLING AND STORAGE

Protection against explosions and fires	<p>Keep containers on site away from sources of heat, sparks and earth if necessary, for static electricity. Use secure locked storage in possible and have forced or natural ventilation over worksite or storage areas.</p>
Packages	<p>The product is supplied in high density polypropylene bottles, jerry cans or cubes. Packaging group type II and III.</p>
Storage	<p>Keep containers securely sealed, clean protected against physical damage. Store in a cool place away from heat. DYNACLENE is corrosive to steel, copper, aluminium and metals in general. It is incompatible with glass and materials containing silica. Keep away from children.</p>

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	<p>The ingredients of which components with established Safe Work Australia exposure standards are listed below. Other ingredients do not have established NOHSC exposure standards.</p>
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INGREDIENTS	TWA (Time Weighted Average)	STEL (Short Term Exposure Limit)
Hydrochloric Acid (trace amounts)	5ppm 7.5 mg/m ³ Peak limitation	2 mg/m ³

Engineering Measures	<p>Use only in a well-ventilated area. Mechanical ventilation or forced draught over the work area is recommended. Avoid generating or inhaling mists or aerosols. Keep away from metals.</p>
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PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection	Wear safety glasses, goggles or preferably a face shield. In enclosed non-ventilated areas, an air line to full head cover helmet with mask may be necessary. Breathing mask to be suitable for organic vapours.
Skin/Body Protection	Wear nitrile or PVC gloves for 8-hour day. Short-term protection (1 hour), natural rubber is suitable. Wear full coverall clothing protection with safety boots.
Hygiene Measure	Wash hands before meal breaks and at the end of a work period. Any contaminated clothing should be removed. Avoid inhaling any fumes on a long-term basis.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Substance	Formulation blend of chemicals
Physical Form	Low viscosity liquid
Colour	Pale yellow clear liquid
Odour	Trace
pH	1.0 +/- 0.2
Boiling Point	>100°C at 100 kPa
Melting Point	Not Applicable
Flash Point	Not Applicable
Freezing Point	Approx. 0°C
Autoignition	Does not ignite
Water Solubility	Infinite
Vapour Pressure	Not Known
Vapour density	Not Known
Specific Gravity	1.2 g/cc @ 25°C
Corrosivity	Corrosive Class 8

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable as supplied at normal (average) atmospheric temperatures.
Reactivity	Strong acid. Reacts violently with bases, oxidants and metals.
Decomposition Products	Severe fire, after evaporation, emits toxic acid fumes.

SECTION 11 – TOXICOLOGICAL INFORMATION

For Hydrochloric Acid	
Immediate	Oral-Rabbit LD ₅₀ : 900 mg/kg Inhalation-human LC _{LO} : 1300ppm/30 minutes Inhalation-human LC _{LO} : 3000ppm/5 minutes
Delayed (Subchronic and Chronic) Effects	Exposure to concentrations over 1000 ppm may cause headache, irritation of the eyes, nose, throat, and, if continued, drowsiness and lassitude, loss of appetite, and inability to concentrate. There is no concrete evidence that repeated exposure to vapour results in cirrhosis of the liver. Ingestion of large doses can cause alcohol poisoning. Repeated ingestions can lead to alcoholism.
OTHER DATA	None



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SECTION 12 – ECOLOGICAL INFORMATION

Not Available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Allow absorbents to dry out in the open atmosphere. Contaminated product should be reprocessed by an approved organisation. Place any dried absorbent in plastic bags, seal and dispose at an approved site.

SECTION 14 – TRANSPORT INFORMATION

Shipping Name	Acid Solution-Category 1 & 1B
Dangerous Goods Code	8
Subsidiary Risk	None
UN Number	1760
Packaging Group	II or III
I.E.R.G. No.	40
HAZCHEM	2R

SECTION 15 – REGULATORY INFORMATION

POISON SCHEDULE 6

SECTION 16 – OTHER INFORMATION

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product.

Directions for use are on the label and brochure describing **Dynaclene**.

SDS NEXT REVIEW DATE 24 July 2024

END OF SDS FOR DYNACLENE