



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:	MAXICLENE
Manufacture Code:	MXCL
Emergency Telephone No:	(08) 9378 2022 0408 940 669 (08) 9381 5052 13 11 26(all hours)
Email:	accounts@calmarc.com.au
Creation Date:	24 November 2016
SDS Responsibility:	Calmarc Chemical's Technical Sales (08) 9378 2022 0408 940 669
Other Information:	<p>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.</p> <p><u>DISCLAIMER</u> 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.</p>

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	Corrosive, may be fatal if swallowed or inhaled. Causes burns to any area of contact. Ingredients are not listed as carcinogenic by NOHSC (1995)
Physical Data	Product is corrosive.



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

ACUTE HEALTH EFFECTS

Swallowed

Highly toxic and may cause perforation of the gastrointestinal tract. Coincidentally severe irritation to the respiratory system may occur.

Eye

Highly corrosive to eyes. Exposure causes a burning sensation, redness and secretions. Splatter may rapidly produce conjunctivitis, keratitis and possible permanent eye damage, including corneal damage and complete loss of sight.

Skin

Highly corrosive to skin. Painful burns but not immediately evident. Initial damage is not necessarily painful or visible. First symptom is delayed throbbing pain, followed by localised narcosis of tissue and blood vessels that may penetrate to the bone. Contamination around finger nail area can lead to painful infection. Healing of the affected area is usually slow.

Inhalation

Not an usual mode of exposure due to the dilute nature of the fluoride component. If aerosols or mist is encountered, this can cause intolerable prickling burning in the chest, nausea, vomiting, diarrhoea and ulceration of the gums and possible perforation of the nasal septum. Because of the delayed nature of the effects, they may not be evident until some hours after exposure.




Chronic

Fluorides can cause fluorosis of the bone. Chronic symptoms include anorexia, anaemia, dental effects (discoloured teeth), osteosclerosis.

SPECIAL HEALTH EFFECTS

Environmental

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

GHS Classification	Pictogram	Hazard Statement
Acute Toxicity – Oral Category 3		H301 – Toxic if swallowed.
Corrosive to metals Category 1 Skin Corrosion/Irritation Category 1B Serious Eye Damage/Irritation Category 1		H290 – May be corrosive to metals. H314 – Causes severe skin burns and eye damage. H318 – Causes serious eye damage.
Specific Target Organ Toxicity Single Exposure Category 3		H335 – May cause respiratory irritation.



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

GENERAL	<p>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.</p>
PREVENTATIVE	<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash face, hands and any exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P234 Keep only in original container.</p>
RESPONSE	<p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P310 Immediately call doctor or physician or POISONS CENTRE P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P321 Specific treatment: see label P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P390 Absorb spillage to prevent material damage.</p>
STORAGE	<p>P410 + P403 Protect from sunlight. Store in a well ventilated place. P233 Keep container tightly closed. P405 Store locked up. P402 Store in a dry place.</p>

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONCENTRATION
Hydrochloric Acid	7647-01-0	10-30% m/m
Hydrofluoric Acid	7664-39-03	<10% m/m
Ethanol	64-17-5	<10% m/m
Polypropylene, polyethylene adduct	9003-11-6	<10% m/m
Water	7732-18-5	To 100%



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

SECTION 4 – FIRST AID MEASURES

Swallowed	Immediately rinse mouth with water. Give plenty of milk or milk of Magnesia to drink. DO NOT induce vomiting. 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. Wash skin area and transport patient to hospital or a medical centre. Apply Calcium Gluconate eyedrops.
Skin	Immediately wash contaminated skin area with plenty of water. Remove contaminated clothing and wash if being reused. Seek medical attention. Apply Calcium Gluconate Gel to affected areas.
Inhaled	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 a trained person give oxygen through a face mask. 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 Hydrofluoric Acid. Serum Calcium and magnesium may have to be replaced intravenously if indicated by electrolyte monitoring.

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	None
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.



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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal	<p>Slippery when wet. Use hydrated lime 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 rinsings 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 vermiculate, 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 if 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. MAXICLENE 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>
------------------------	--

INGREDIENTS	TWA (Time Weighted Average)	STEL (Short Term Exposure Limit)
Hydrofluoric Acid	3ppm 2.6 mg/m ³ Peak limitation	None
Hydrochloric Acid	5ppm 7.5mg/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 glass.</p>
-----------------------------	--



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

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	Clear
Odour	Sharp, slightly pungent odour
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	1.1 g/cc @ 25°C
Volatiles	Vicinity of 85% w/m
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 Ethanol Immediate

Oral-Rat LD₅₀: 7060 mg/kg
Oral-Mouse LD₅₀: 3450 mg/kg
Inhalation-Rat LC₅₀: 20,000 ppm/10h
Inhalation-Mouse LC₅₀: 39 g/m³/4h
Intraperitoneal-Rat LD₅₀: 3750 mg/kg
Intraperitoneal-Mouse LD₅₀: 933 mg/kg
Intravenous-Rat LD₅₀: 1440 mg/kg
Intravenous-Mouse LD₅₀: 1973 mg/kg
Subcutaneous-Mouse LD₅₀: 8285 mg/kg



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

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

SECTION 12 – ECOLOGICAL INFORMATION

For Ethanol LC₅₀ Pimephales promelas (fat minnows 28-29 days old):
29.4g/L/96h

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	Strong Acid Solution
Dangerous Goods Code	8
Subsidiary Risk	6.1(a)
UN Number	1790
Packaging Group	II or III
I.E.R.G. No.	40
HAZCHEM	2X

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 **Maxiclene**.

SDS NEXT REVIEW DATE 28 August 2024

END OF SDS FOR MAXICLENE