



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 – IDENTIFICATION

Product Name: Aquaphobic
Manufacture Code: AQPB
Emergency Telephone No: (08) 9378 2022
0408 940 669
(08) 9381 5052
Email: accounts@calmarc.com.au
Creation Date: 25 May 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**

GHS Classification	Pictogram	Hazard Statement
Flammable Liquid, Category 3		H225 – Highly flammable liquid and vapour.
Serious eye damage/eye irritation Category 1		H318 – Causes serious eye damage.



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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.
PREVENTATIVE	
P210	Keep away from sparks/open flames – No Smoking.
P233	Keep container tightly closed.
RESPONSE	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor.
P370 + P378	In case of fire: Use extinguishing powder, alcohol resistant foam or carbon dioxide to extinguish.
STORAGE	
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to waste disposal.

Hazardous ingredients (labelling):

Propionic acid

Polydimethylsiloxane with aminoalkyl groups.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characteristics

Alkylsilicone resin with alkoxy groups.

EC-No.	CAS No.	Material	Content	Symbol
	67923-07-3	Polydimethylsiloxane with aminoalkyl groups	>10 – <20	Xi
201-176-3	79-09-4	Propionic Acid	<5	C

SECTION 4 – FIRST AID MEASURES

Swallowed

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

Eye

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice. Keep the eyelids open to rinse the whole eye surface and eyelids with water. Continue to bathe the eyes during transport to a doctor. Seek medical advice and immediately and clearly identify substance.



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Skin	Wash with plenty of water or soap and water for 10-15 minutes; immediately remove all contaminated clothing. In serious cases, use emergency shower immediately. Seek medical advice and clearly identify substance.
Inhalation	Keep the patient calm. Protect against loss of body heat. Seek medical advice and clearly identify substance.
Advice to Doctor	Further toxicology information in section 11 must be observed.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable liquid	Vapours in enclosed spaces may have an explosion risk if an ignition source is present (e.g. in empty uncleaned drums).
Ventilation	Always have some form of ventilation when using or storing this product.
Extinguishing Media	Extinguishing powder, alcohol resistant foam, carbon dioxide.
Special Fire Fighting Procedures	Fire fighters to wear self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.
Hazardous Decomposition Products	Nitrous gases.
Flammability	This product is a combustible (C2) liquid and must be stored, handled and used according to the requirements of AS 1940 – The storage and handling of Flammable and Combustible liquids.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal	Eliminate all sources of ignition. Wear protective clothing. Keep unprotected persons away. Avoid contact with skin and eyes. Advise that is a slip risk hazard. Absorb mechanically and dispose of according to regulations. Absorb with a liquid binding material such as diatomaceous earth and place in a clean, labelled container. Keep away from sources of ignition. Do not allow to enter waterways or sewers. Clean any slippery coating that remains using a detergent/ soap solution (e.g. water-surfactant blend) or other biodegradable cleaner. Exhaust vapours.
Cleaning Protection	Open up the area where spill or leak has occurred to ventilate direct vapours away. Attach earth leak cables to any containers in the spill area. Have absorbents such as vermiculate, attapulgate, cardboard or sand on hand to control flow of the spilled mobile product. Use wet vacuum cleaner or mop to collect any small spills.



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SECTION 7 – HANDLING AND STORAGE

Product can release methanol. In storage take precautionary measures against static discharges. Keep away from heat, open flames, sparks and other sources of ignition. Keep the container dry and tightly closed. Store in a cool (<30°C), well-ventilated, dry place. Store away from ignition sources. Protect against moisture.

Store in accordance with Dangerous Goods (Storage & Handling) Regulations and AS1940 Storage & Handling of Flammable & Combustible Liquids.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

The ingredients of which components with established Safe Work Australia exposure standards are listed below. Other ingredients do not have established NOHSC exposure standards.

Tetraethyl Silicate 10 ppm 85 mg/m³ TWA.

Methanol 200 ppm 262 mg/m³ TWA 250 ppm 328 mg/m³ STEL.

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate, unless the material is heated, then the use of a local exhaust ventilation system is recommended. Take precautionary measures against static discharges. All equipment must be spark proof and explosion proof. Ground and bond all equipment to stop build-up of static charges.

Engineering Measures

Avoid skin and eye contact. Avoid inhaling the vapour or mist. Follow normal industrial safety practices. The use of protective clothing and equipment depends on the degree of exposure. The following personal protective equipment should be used:

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection

Safety glasses with side shields, goggles or face shield to protect eyes.

Filter capacity and respirator type depends on exposure levels and type of containment. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715/1716, or any other acceptable International Standard is recommended.

Use organic or airline respirators if a risk of overexposure exists.

Skin/Body Protection

Butyl rubber gloves are suitable for up to 60 minutes use. Chemical resistant safety shoes or boots. Overalls or similar protective apparel.



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Where applicable refer to the following Standards:

AS/NZS 1337 Eye protectors for industrial applications.

AS 2161 Industrial safety gloves and mittens.

AS 2210 Safety footwear.

AS 3765 Clothing for protection against hazardous chemicals.

AS/NZS 1715 Selection, use and care of respiratory protection devices.

AS/NZS 1716 Respiratory protection devices.

Always wash hands before smoking, eating, drinking or using the toilet.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellowish Liquid
Boiling Point	Not available
Odour	Slightly sweet
Vapour Pressure	38hPa @ 30°C, 103hPa @ 50°C, 311hPa @ 75°C
Flash Point	25°C (closed cup)
Melting Point	Not determined
Water Solubility	Emulsifiable with water
Specific Gravity	0.95 g/cc
pH	5-6 @ 25°C

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable when kept dry. The product hydrolyses, producing methanol and ethanol. CONDITIONS TO AVOID: Ignition sources, moisture.
Incompatibilities	Oxidising agents.
Hazardous Decomposition Products	Reacts slowly with water to form Methanol and Ethanol with flash point reduction. For the Silicone content of this product, at temperatures above 150°C a small amount of Formaldehyde can be released by oxidative degradation. Oxides of Nitrogen.
Hazardous Polymerisation	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (rat): >2000 mg/kg
Acute Skin Toxicity LD50 (rabbit): >2000 mg/kg
Acute Inhalation Toxicity LC50 (rat): >0.72 mg/1h (spray/dust)

INHALATION OF AN AEROSOL MIST: At the technically highest possible concentration no mortality occurred in the animal test.

EYE IRRITATION: Serious damage to eyes (rabbit). A 10% solution in water irritates the eyes (by analogy).

SKIN SENSITISATION: Not sensitising (Guinea Pig, Magnusson-Kligman).



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Inhalation of aerosol spray may damage health. The vapour may cause irritation to the mucous membranes and respiratory tract. Over exposure can result in nausea, vomiting and dizziness. Aerosol mist at the highest possible concentration caused difficulty in breathing and impaired coordination.

Contact with water (in the gastrointestinal tract) forms Methanol in large amounts. Therefore, methanol poisoning must be considered and carry out a several days latency period of observation. Ingestion may cause irritation to mouth, throat and stomach. Swallowing may result in nausea, vomiting, diarrhoea and abdominal pain. May be harmful due to the methanol formed in the gastrointestinal tract. Skin may be irritating to the skin. Eye Causes eye irritation. Risk of serious damage to eyes.

Chronic Effects Repeated or prolonged exposure may cause irritation and dermatitis.

Methanol absorption may cause damage to the heart, kidneys, liver and optic nerves (blindness) over a period of time.

SECTION 12 – ECOLOGICAL INFORMATION

Classification based on the ingredients:

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Do not introduce into waterways, sewerage or soil.

By hydrolysis it will form methanol, ethanol and silanol- and/or siloxanol-compounds.

Methanol and Ethanol are both easily biodegradable.

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	Flammable liquid, Category 2
Dangerous Goods Code	3
Subsidiary Risk	None
UN Number	1993
Packaging Group	III
I.E.R.G. No.	Number 14
HAZCHEM	●3Y

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

This is not a scheduled poison.



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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 **Aquaphobic**.

SDS NEXT REVIEW DATE 22 May 2028

END OF SDS FOR AQUAPHOBIC