



# 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 NOT A HAZARDOUS SUBSTANCE AS DEFINED BY SAFE WORK AUSTRALIA**

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name:	B-SIL
Manufacture Code:	BSIL
Emergency Telephone No:	(08) 9378 2022 0408 940 669 (08) 9381 5052
Email:	accounts@calmarc.com.au
Creation Date:	14 February 2017
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. <b>DISCLAIMER</b> 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

<b>Globally Harmonised System</b>	
Hazard Classification	Not hazardous according to the criteria of the Globally Harmonised System of classification and labelling of Chemicals (GHS).
Hazard Category	None allocated.
<b>Other Hazards</b>	Inhalation of aerosol spray may damage health.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONCENTRATION
Tridecanol Ethoxylate, branched	69011-36-5	<4% m/m
Water		



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### SECTION 4 – FIRST AID MEASURES

<b>Swallowed</b>	Give several small portions of water to drink. Do not induce vomiting.
<b>Eye</b>	Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.
<b>Skin</b>	Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice. Show label or SDS where possible.
<b>Inhalation</b>	Provide fresh air.
<b>Advice to Doctor</b>	Further toxicology information in section 11 must be observed.

### SECTION 5 – FIRE FIGHTING MEASURES

<b>General Measures</b>	Clear the fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from the fire area if it can be done without risk.
<b>Flammability conditions</b>	Not flammable.
<b>Suitable Extinguishing Media</b>	Water mist, extinguishing powder, foam, carbon dioxide, sand. Do not use water jet for safety reasons.
<b>Decomposition Products</b>	Nitrous gases.
<b>Autoignition Temperature</b>	No data available.
<b>Special Protective Actions for Fire Fighters</b>	Use respiratory independent of recirculated air. Keep unprotected persons away.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Secure the area. Wear personal protection equipment (see section 8). Avoid inhaling mists and vapours. Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.
<b>Environmental precautions</b>	Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible, without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.



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### Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water.

**For small amounts:** Absorb with a neutral (non-acidic/ non-basic) liquid binding material, such as diatomaceous earth and dispose of according to government regulations.

**For large amounts:** Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

## SECTION 7 – HANDLING AND STORAGE

### General information

Always stir well before use.

### Precautions for safe handling

Avoid formation of aerosols. In case of aerosol formation special protection measures are required (exhausting by suction, respiratory protection). Ensure adequate ventilation. Spilled substance increases risk of slipping. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

### Precautions against fire and explosion

Product may release ethanol. Flammable vapours may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

### Storage

Store in a cool, dry and well-ventilated place. Protect against sun. Protect against frost. Minimum temperature allowed during storage and transportation: 0°C.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures

Apply in a well-ventilated area either externally or internally.

### Airborne Exposure Limits

The aerosol limit specified is 10 mg/m<sup>3</sup> for inhalation should aerosol be formed during processing.

## PERSONAL PROTECTIVE EQUIPMENT

### Skin/Body Protection

Use of protective gloves is recommended when handling the material.

Recommended glove types:

Protective gloves made of butyl rubber

Thickness of the material: >0.3 mm

Breakthrough time: >480 min



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Recommended glove types:  
Protective gloves made of nitrile rubber.  
Thickness of the material: >0.1 mm  
Breakthrough time: >480 min

Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Wear protective clothing.

### Eye/Face Protection

Wear protective goggles.

### Respiratory Protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full-face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapours; ammonia/amines; particles), according to acknowledged standards such as EN 14387 If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full-face mask, according to acknowledged standards such as EN 136. Recommended Filter type:

Gas filter type ABEK (certain inorganic, organic and acidic gases and vapours; ammonia/amines), according to acknowledged standards such as EN 14387 Observe the equipment manufacturer's information and wear time limits for respirators.

### Hygiene Measure

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Do not eat, drink or smoke while handling.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Substance	Formulation of chemicals
Physical Form	Liquid
Colour	White
Odour	Pleasant
pH	5-7 at 23°C
Boiling Point	100°C at 1013 hPa
Melting Point	-1°C
Flash Point	Not Applicable
Vapour pressure	23 hPa at 20°C



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Autoignition	430°C
Water Solubility	Completely miscible
Specific Gravity	Approx. 1.00 g/cc (23°C)
Viscosity	Approx. 35 mPas at 23°C

### SECTION 10 – STABILITY AND REACTIVITY

<b>Stability</b>	If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.
<b>Conditions to Avoid</b>	Heat, open flames, and other sources of ignition.
<b>Incompatible Materials</b>	Reacts with basic substances and acids. Reaction causes the formation of ethanol.
<b>Hazardous Decomposition Products</b>	By hydrolysis: ethanol. The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above 150°C through oxidation.

### SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures.
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Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD <sub>50</sub> : >2000 mg/kg	Rat	Conclusion by analogy
Dermal	LD <sub>50</sub> : >2000 mg/kg	Rat	Conclusion by analogy

<b>Skin corrosion/irritation</b>	Based on the available data a clinically relevant skin irritation hazard is not expected.
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Result/Effect	Species/Test system	Source
Not irritating	Rabbit	Conclusion by analogy

<b>Serious eye damage/eye irritation</b>	Based on the available data a clinically relevant skin irritation hazard is not expected.
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Result/Effect	Species/Test system	Source
Not irritating	Rabbit	Conclusion by analogy



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<b>Respiratory or skin sensitization</b>	For this endpoint no toxicological test data is available for the whole product.
<b>Germ cell mutagenicity</b>	For this endpoint no toxicological test data is available for the whole product.
<b>Carcinogenicity</b>	For this endpoint no toxicological test data is available for the whole product.
<b>Reproductive toxicity</b>	For this endpoint no toxicological test data is available for the whole product.
<b>Specific target organ toxicity (single exposure)</b>	For this endpoint no toxicological test data is available for the whole product.
<b>Specific target organ toxicity (repeated exposure)</b>	For this endpoint no toxicological test data is available for the whole product.
<b>Aspiration hazard</b>	For this endpoint no toxicological test data is available for the whole product.

### SECTION 12 – ECOLOGICAL INFORMATION

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Result/Effect	Species/Test system	Source
LC <sub>50</sub> : >100 mg/L	Dynamic Zebra fish (Danio rerio) (96 h)	Conclusion by analogy
EC <sub>50</sub> : >1000 mg/L	Sludge (3 h)	Conclusion by analogy

<b>Persistence and degradability</b>	Silicone content: biologically not degradable. Elimination by absorption to activate sludge. Emulsifier: readily biologically degradable.
<b>Bioaccumulative potential</b>	Bioaccumulation is not expected to occur.
<b>Mobility in soil</b>	Separation by sedimentation.
<b>Other adverse effects</b>	None known.

### SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	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.
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### SECTION 14 – TRANSPORT INFORMATION

Shipping Name	B-SIL
Dangerous Goods Code	None
Subsidiary Risk	None

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UN Number	None
Packaging Group	II or III
I.E.R.G. No.	None
HAZCHEM	None

**SECTION 15 – REGULATORY INFORMATION**

None Known.

**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 **B-Sil**.

**SDS NEXT REVIEW DATE** 22 May 2028

**END OF SDS FOR B-SIL**