

Material Safety Data Sheet

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Infosafe No. LPUBC Issue Date : April 2005 ISSUED by BARNES

Product Name : **ULTRASIL® PART B**

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name ULTRASIL® PART B
Product Use Moulding rubber.
Company Name Barnes Products Pty Ltd (ABN 004 011 456)
Address 6 Homedale Road Bankstown
NSW 2200
Emergency Tel. (02) 9793 7555
Telephone Number/Fax Tel: (02) 9793 7555 Fax: (02) 9793 7091

Other Names	<u>Name</u>	<u>Product Code</u>
	GELSIL® PART B	
	MAXIMOULD® PART B	

Other Information Information provided has been prepared in good faith and believed to be correct. Barnes Products Pty Limited make no warranty either express or implied as to completeness, accuracy thereof, misuse or misinterpretation of this information.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition This product contains polydimethylsiloxanes, trimethoxyphenylsilane and other, non-hazardous additives.

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Dibutyltin dilaurate	77-58-7	1-5 %
	Other ingredients determined not be hazardous		Balance

3. HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of NOHSC.
Not classified as a dangerous good according to the ADG Code.

Risk phrases:
None applicable.

Safety phrases:
None applicable.

4. FIRST AID MEASURES

Inhalation Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.

Ingestion Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.

Skin Remove contaminated clothing and wash skin thoroughly with soap and water. Ensure contaminated clothing is washed before re-use or discard. If irritation develops, seek medical attention.

Eye If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor Treat symptomatically or consult a Poisons Information Centre (Phone 131 126).

5. FIRE FIGHTING MEASURES

Extinguishing Media Do not use water in a jet. Keep containers cool with water spray. Use foam, carbon dioxide or dry chemical to extinguish fire.

Specific Hazards This product has a flashpoint of 48°C but does not sustain combustion as determined by a test method specified in 49 CFR 173- Appendix H to Part 173 Method for Sustained Combustibility (which corresponds to Section 3.1.2 of the Australian Dangerous Goods Code, Volume 2, Addendum 1 to Appendix 2).

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Hazardous Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, formaldehyde, silica and oxides of tin.

Precautions in connection with Fire Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Handling Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged skin exposure without protection should be prevented in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Storage Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all State and Federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure limits have been established for this material by the National Occupational Health And Safety Commission (NOHSC), however for the constituent;

SUBSTANCE	TWA		STEL		Notes
	ppm	mg/m ³	ppm	mg/m ³	
tin, organic compounds (as Sn)	-	0.1	-	0.2	Sk

'Sk' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Other Exposure Information TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

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Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.
Eng. Controls	Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Refer to AS1940 - The storage and handling of flammable and combustible liquids and AS2430 - Explosive gas atmospheres for further information concerning ventilation requirements.
Other Information	Biological Limit Values: No biological limit allocated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue, viscous liquid
Odour	Alcohol-like odour
Melting Point	Not available
Boiling Point	> 211°C (@ 760 mmHg)
Solubility in Water	Slowly hydrolyses
Specific Gravity (H₂O=1)	1.0 @ 25°C
pH Value	Not applicable
Vapour Pressure	< 20 mmHg @107°C
Vapour Density (Air=1)	Not available
Flash Point	48°C (Pensky-Martens Closed Cup)
Flammability	This product has a flashpoint of 48°C but does not sustain combustion as determined by a test method specified in 49 CFR 173- Appendix H to Part 173 Method for Sustained Combustibility (which corresponds to Section 3.1.2 of the Australian Dangerous Goods Code, Volume 2, Addendum 1 to Appendix 2).
Ignition Temperature	Not available
Flammable Limits LEL	6%
Flammable Limits UEL	36%

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and handling.
Hazardous Polymerization	Will not occur.
Materials to Avoid	Avoid contact with water, strong oxidising agents, strong acids and strong bases.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide, dimethylcyclosiloxanes, methylphenylcyclosiloxanes and formaldehyde. Contact with water will cause decomposition by hydrolysis to produce methanol.
Hazardous Reaction	May react with strong oxidising agents, strong acids and strong bases. Will react with water to produce methanol.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition. Avoid contact with water and extreme humidity.

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11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data is available for this specific product.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin	May cause redness, itching and irritation.
Eye	May cause eye irritation, tearing, stinging, blurred vision, and redness.
Chronic Effects	Prolonged exposure to organotin compounds can affect the central nervous system, respiratory system, eyes, liver, urinary tract, skin and blood. Symptoms include sore throat, cough, headache, dizziness, nausea, vomiting and weakness.
Other Information	<p>This product contains methylpolysiloxanes which can generate formaldehyde when heated above 150°C in the presence of air. Formaldehyde is a known animal carcinogen and is listed as a probable human carcinogen by the IARC. Formaldehyde is irritating to the eyes, nose, throat and skin and is a dermal sensitiser.</p> <p>This product when in contact with water will produce methanol. Methanol, at high concentrations, can have central nervous system effects and may cause blindness if swallowed.</p>

12. ECOLOGICAL INFORMATION

Environ. Protection	Do not allow product to enter drains, waterways or sewers.
Mobility	No data is available for this material.
Persistence / Degradability	No data is available for this material.
Ecotoxicity	No data is available for this material.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise combustible nature.

14. TRANSPORT INFORMATION

	Not classified as a Dangerous Good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
U.N. Number	None Allocated
Proper Shipping Name	None Allocated
DG Class	None Allocated
Hazchem Code	None Allocated
Packing Group	None Allocated
IMDG Marine Pollutant (MP)	This product is classified by the International Maritime Dangerous Goods Code as a severe marine pollutant.

15. REGULATORY INFORMATION

Poisons Schedule S7

16. OTHER INFORMATION

Contact Person/Point

SDS History MSDS Creation: April 2005
...End Of MSDS...

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