

**Dow Corning Australia Pty Ltd
Material Safety Data Sheet****SILASTIC(R) 87-S CURING AGENT (CURING AGENT information is below)****STATEMENT OF HAZARDOUS NATURE:**

Hazardous according to criteria of Worksafe Australia.

1. COMPANY DETAILS

- 1.1 Company:** Dow Corning Australia Pty Ltd, ABN 36 008 444 166
1.2 Address: Locked Bag 2095, North Ryde, NSW 1670, Australia
1.3 Telephone Number: 1300-360-732
1.4 Emergency Telephone Number (within Australia): 1300-360-732
(from outside Australia): 61-1300-360-732

2. Identification

- 2.1 Product Name:** SILASTIC(R) 87-S CURING AGENT (CURING AGENT information is below)
2.2 Other Name: Organotin compound
2.3 Manufacturer's Product Code: 02753065
2.4 Correct Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (Contains (PROPOXYSILANE))
2.5 UN No.: 1993
2.6 Dangerous Goods (Class and Subs Risk): 3 **Packing Group:** III
2.7 ICAO Dangerous Goods Class: 3 **Packing Group:** III
2.8 IMDG Dangerous Goods Class: 3.3 **Packing Group:** III
2.9 Hazchem Code: 3(Y)
2.10 Poisons Schedule Number: 7
2.11 Use: Silicone rubber curing agent
- 2.12 Physical Description/Properties**
Physical Form: Liquid
Colour: Colorless to pale yellow
Odour: Some odor
Boiling Point: > 35C/95F
Melting Point: Not determined.
Vapour Pressure: Not determined.
Specific Gravity @ 25°C: 0.961
Flash Point: 55 °C
Lower Flammability Limit: Not determined.
Upper Flammability Limit: Not determined.
Solubility in Water: Not determined.
Volatile Content: Not determined.
- 2.13 Other Properties**
Viscosity: 25 mPa s
Vapour Density: Not determined.
pH: Not determined.

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Autoignition temperature: Not determined.

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

2.14 Ingredients:

Chemical Name	CAS Number	Proportion %
Polydimethylsiloxane	63148-62-9	>60
Tetrapropyl orthosilicate	682-01-9	10 - <30
Dimethyl tin di-neodecyl ester	68928-76-7	<10
Phenyltrimethoxysilane	2996-92-1	<10
Methyl alcohol	67-56-1	<1

Ingredients determined not to be hazardous to 100%

3. Health Hazard Information**3.1 Health Effects***Acute*

Ingestion: Overexposure by ingestion may cause effects similar to those listed under repeated exposure.

Eye: Direct contact may cause severe irritation.

Skin: May cause moderate irritation.

Inhalation: Vapor and/or mist irritating to the respiratory tract. Vapor overexposure may cause drowsiness.

Chronic

Ingestion: Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

Skin: Repeated or prolonged exposure may irritate seriously. Overexposure may injure internally if absorbed.

Inhalation: Product generates methyl alcohol which may cause blindness and damage to nervous system.

3.2 Mutagenic Effects:

None known.

3.3 Reproductive Effects:

None known.

3.4 Carcinogenic Effects:

None known.

3.5 Other Health Hazard Information:

Inhalation overexposure may cause Pulmonary Edema.

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The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

3.6 First Aid

Ingestion:	Get medical attention.
Eye:	Immediately flush with water for 15 minutes. Get medical attention.
Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	Remove to fresh air. Get medical attention if ill effects persist.
First Aid Facilities:	None should be required.
Comments:	Treat according to person's condition and specifics of exposure.
Advice to Doctor:	Treat Symptomatically. For further information, the Medical Practitioner should contact Dow Corning Australia Pty Ltd.

4. Precautions for Use

4.1 Exposure Standards:

Ingredients

Exposure Limits

Tetrapropyl orthosilicate	See n-propyl alcohol comments.
Dimethyl tin di-neodecyl ester	Australia: TWA 0.1 mg/m ³ , as Sn STEL 0.2 mg/m ³ , as Sn Can be absorbed through the skin Observe tin (organic compounds) limits. OSHA PEL and ACGIH TLV-skin: TWA 0.1 mg/m ³ ; ACGIH STEL 0.2 mg/m ³ .
Phenyltrimethoxysilane	Dow Corning guide: TWA 50 ppm. Also see methyl alcohol comments.
Methyl alcohol	Australia: TWA 200 ppm (262 mg/m ³) STEL 250 ppm (328 mg/m ³) Can be absorbed through the skin OSHA PEL (final rule) and ACGIH TLV-skin: TWA 200 ppm; STEL 250 ppm.

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of Worksafe Australia: TWA 200 ppm, STEL, 250 ppm, skin absorption; OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm. n-Propyl alcohol is formed upon contact with water or humid air. Provide ventilation to control exposures to within WORKSAFE/OSHA guidelines. Australia: TWA: 200 ppm, STEL 250 ppm. OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

4.2 Engineering Controls

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Local Exhaust: Recommended.
 General Ventilation: Recommended.

4.3 Personal Protection

Respiratory: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Organic Vapor/Dust/Mist Type.

Hand: Butyl Rubber. Neoprene Rubber(R). Nitrile Rubber.

Eye: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Personal Hygiene: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

4.4 Flammability

Fire Hazards (precautions to be taken in handling and storage): Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame. Keep container closed and store away from water or moisture.

Unusual Fire Hazards: Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

5. Safe Handling Information

5.1 Advice on Safe Handling

Local Exhaust: Recommended.
 General Ventilation: Recommended.

Dangerous Goods Class: 3 Packing Group: III

Handling Precautions: Use with adequate ventilation. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus. Product evolves n-propyl alcohol when exposed to water or humid air. Provide ventilation during use to control n-propyl alcohol exposures within

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exposure guidelines or use respiratory protection. Traces of benzene (carcinogen) may form if heated in air above 300 degrees F (149 degrees C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Avoid skin and eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Storage Conditions: Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame. Keep container closed and store away from water or moisture.

Unsuitable Packaging Materials: None established.

5.2 Spills

Personal Precautions: Avoid skin and eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.

Environmental Precautions: Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented.

Methods for Cleaning up: Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

5.3 Waste Disposal

Product Disposal: Dispose of in accordance with local regulations.

Packaging Disposal: Packaging should be disposed of in accordance with regional and/or national regulations.

5.4 Stability and Reactivity

Stability: Stable.

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction. Water, moisture or humid air

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Hazardous Decomposition Products:	can cause hazardous vapors to form. Carbon oxides and traces of incompletely burned carbon compounds.
Hazardous Polymerisation:	Silicon dioxide. Metal oxides. Formaldehyde. Hazardous polymerization will not occur.

5.5 Fire/Explosion Hazard

Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
Unsuitable Extinguishing Media:	None established.
Unusual Firefighting Hazards:	Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.
Special Firefighting Procedures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Hazardous Decomposition Products:	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Metal oxides. Formaldehyde.
Hazchem Code:	3(Y)

6. Regulatory Information**6.1 Classification and Labelling**

Classification:	Xi Irritant. Flammable
R-phrases:	R10 Flammable. R36/38 Irritating to eyes and skin.
S-phrases:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29 Do not empty into drains. S33 Take precautionary measures against static discharges. S37/39 Wear suitable gloves and eye/face protection. S41 In case of fire and/or explosion do not breathe fumes. S51 Use only in well-ventilated areas.

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AICS:	All ingredients listed or exempt.
EINECS:	All ingredients listed or exempt.
TSCA:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
MITI:	Not determined.
KECL:	Not determined.
DSL:	Not determined.
IECSC:	Not determined.
PICCS:	Not determined.

7. Other Information

Contact Point: Technical Services Engineer 1300-360-732
Prepared by: Dow Corning Australia Pty Ltd

This MSDS 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 MSDS 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 or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this Company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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