



Material Safety Data Sheet

Based on available information, not classified as hazardous according to criteria of NOHSC.
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

1. Identification of the substance/preparation and of the company/undertaking

Product Name: ROOF & GUTTER SILICONE SEALANT

Packaging Type 75g tube
310g cartridge

Supplier: Selleys Pty Ltd
ABN: 67 000 049 427
Street Address: 1 Gow Street
Padstow 2211
Australia

Telephone Number: +61 2 9781 8777
Facsimile: +61 2 9781 8825

Emergency Telephone: 1 800 033 111 (ALL HOURS)

2. Composition/information on ingredients

Product Description: Metal to metal sealant for steel and aluminium roofing, flashings, guttering etc. Coloured paste with a mild odour.

Polydimethylsiloxane compounds	>60%	-
Amorphous silica 112945-52-5	<10%	-
Pigments	<10%	-
Fillers and plasticisers	<10%	-
Oxime silane 2224-33-1	<10%	-
Oxime silane 22984-54-9	<10%	-
Organotin catalysts	<10%	-

3. Hazards identification

Poisons Schedule: None allocated.

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4. First-aid measures

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

- Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.
- Skin Contact:** Wipe excess material from skin with a clean rag or paper towel (do NOT use solvent to clean skin). Remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.
- Eye Contact:** If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Ingestion:** Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical assistance. Seek medical advice.
- Notes to physician:** Treat symptomatically.

5. Fire-fighting measures

- Specific Hazards:** Combustible paste.
- Fire-fighting advice:** Combustible but under normal conditions of use is not considered a risk. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
- Suitable Extinguishing Media:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. Accidental release measures

SMALL SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wipe up with rag or absorbent paper. Any residual material can be cleaned up with mineral turpentine or similar hydrocarbon solvent, or acetone based nail polish remover. Cured material can be removed by cutting or abrasion.

LARGE SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapours. Work up wind or increase ventilation. Scrape up excess material before cure. Collect and seal in properly labelled containers or drums for disposal. Cured material can only be removed by cutting or abrasion.

7. Handling and storage

- Handling advice:** Avoid skin and eye contact and breathing in vapour.
- Storage advice:** Keep containers closed when not in use - check regularly for leaks.

8. Exposure controls/personal protection

Occupational Exposure Limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

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Silica Amorphous - Precipitated silica: 8hr TWA = 10 mg/m³

As published by the National Occupational Health and Safety Commission.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Control Measures:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment:

Selleys Safe Handling Code: Green

Green - Wear clean overalls, safety boots, general purpose gloves (PVC) and safety spectacles. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been removed from fingertips, nails and cuticles. If risk of inhalation exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

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

9. Physical and chemical properties

Physical state:	Paste
Colour:	Coloured
Odour:	Mild
Solubility:	Insoluble in water. Uncured material is soluble in organic solvents. No solvent known for cured sealant.
Specific Gravity:	1.03 @ 20°C
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	N Av
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	< 10
Solubility in water (g/L):	Insoluble
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	> 200
Sublimation Point (°C):	N App
pH:	N App
Viscosity:	N Av
Evaporation Rate:	N Av

10. Stability and reactivity

Stability: No incompatible materials known.

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11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

- Ingestion:** Swallowing may result in irritation to the mouth and throat. No adverse effects expected after swallowing cured (solvent free) sealant.
- Eye contact:** May be an eye irritant.
- Skin contact:** Repeated or prolonged skin contact may lead to irritation. Methyl ethyl ketoxime (liberated during application and setting) is a skin sensitizer. (1) Repeated or prolonged skin contact may lead to allergic contact dermatitis in sensitive individuals. Cured sealant (solvent free) is not expected to be a skin irritant.
- Inhalation:** Methyl ethyl ketoxime is liberated during application and setting. Material may be irritant to the mucous membranes of the respiratory tract (airways).

Long Term Effects:

Evidence from animal tests indicate that repeated or prolonged exposure to methyl ethyl ketoxime (released during sealant cure) could result in nasal tissue damage. (1)

Toxicological Data:

No LD50 data available for the product. However, for methyl ethyl ketoxime, released during sealant cure (1):

Oral LD50 (rat):	2300 - 3700 mg/kg
Dermal LD50 (rat):	> 1000 mg/kg
Inhalation LC50 (rat):	> 4.8 mg/L (4 hour)
SKIN:	Mild irritant. Weak skin sensitizer. (1)
EYES:	Corrosive (rabbit). (1)

The components in the proportions present are not considered to present a hazard under conditions of good occupational work practice. For methyl ethyl ketoxime (1):

Negative in IN VITRO and IN VIVO genotoxicity assays. Animal studies have shown that this chemical does not cause reproductive or developmental toxicity. Four week inhalation studies in the rat produced a NOEL (for CNS effects) of 714 ppm and NOEL (for blood effects) of 283 ppm. Lifetime inhalation studies in rats and mice have observed changes to liver and nasal tissue (degeneration of olfactory epithelium). Nasal tissue changes were concentration dependant. Recent lifetime inhalation studies have shown statistically significant increase in liver tumours in male rats and male mice at 375 ppm. No tumours were present at lower concentration rates (15 and 75 ppm) or in female rats or mice at any concentration tested. Liver tumour incidence is relatively more common in rodents than humans. At current estimated exposure levels it is not anticipated that methyl ethyl ketoxime represents a carcinogenic risk to humans, however further testing is currently underway to assess the relevance of the above data to humans. (1)

12. Ecotoxicological information

Avoid contaminating waterways.

13. Disposal considerations

Refer to Waste Management Authority. Normally suitable for disposal at approved land waste site.

14. Transport information

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Road and Rail Transport

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Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. Regulatory information

Classification: Based on available information, not classified as hazardous according to criteria of NOHSC.
Poisons Schedule: None allocated.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. Other information

(1) Material Safety Data Sheet - Orica Australia Pty Ltd; 02/ 1998.

This material safety data sheet has been prepared by SH&E Shared Services, Orica.
For further copies of this sheet or other product information contact Selley's Proprietary Limited Customer Service.

Phone: 1300 555 205 (Australia wide)
Fax: 1300 555 305 (Australia wide)
Phone: 9 820 4852 (New Zealand)
Fax: 0800 804 583 (New Zealand)

Reason(s) for Issue:

Revised Primary MSDS

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1.

Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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