



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ROOF & GUTTER SILICONE SEALANT

Recommended Use: Metal to metal sealant for steel and aluminium roofing, flashings, guttering etc.

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. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Poisons None allocated.

Schedule:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Polydimethylsiloxane compounds 70131-67-8	>60%	-
Polydimethyl siloxane 63148-62-9	1-<10%	-
Pigments -	1-<10%	-
Amorphous silica 112945-52-5	1-<10%	-
Methyl oxime silane -	1-<10%	-
Adhesion promoting agent -	<5%	-
Dialkyl tin compound -	<0.1%	-

Product Name: ROOF & GUTTER SILICONE SEALANT

Substance No: 000703517101

Issued: 08/05/2007

Version: 3



Material Safety Data Sheet

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.
- Medical attention and special treatment:** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Hazards from combustion products:** Combustible paste. On burning will emit toxic fumes.
- Precautions for fire fighters and special protective equipment:** 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

- Emergency procedures:** If contamination of sewers or waterways has occurred advise local emergency services.
- Methods and materials for containment and clean up:** 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. 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.

Product Name: ROOF & GUTTER SILICONE SEALANT
Substance No: 000703517101

Issued: 08/05/2007

Version: 3



Material Safety Data Sheet

7. HANDLING AND STORAGE

Conditions for safe storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Keep dry - reacts with water. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling: Avoid skin and eye contact and breathing in vapour.

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):

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 controls:

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 Factory Safe Handling Code: Green

MANUFACTURE, PACKAGING AND TRANSPORT: 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. Always wash hands before smoking, eating, drinking or using the toilet. If risk of inhalation exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

FOR CONSUMER USE: Avoid contact with eyes and skin. Use with adequate ventilation. Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Colour: Coloured

Product Name: ROOF & GUTTER SILICONE SEALANT
Substance No: 000703517101

Issued: 08/05/2007 **Version:** 3



Material Safety Data Sheet

Odour:	Mild
Solubility:	Insoluble in water. Uncured material is soluble in organic solvents. No solvent known for cured sealant.
Specific Gravity:	1.04 @ 20°C
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	63
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	<10
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	>150
pH:	N App
Viscosity:	N Av
Evaporation Rate:	N Av

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid exposure to moisture. Avoid exposure to heat, sources of ignition, and open flame.
Incompatible materials:	Incompatible with acids and bases .
Hazardous decomposition products:	Formaldehyde. Methyl ethyl ketoxime.
Hazardous reactions:	Reacts with moisture liberating methyl ethyl ketoxime .

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 sensitiser. 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).

Product Name: ROOF & GUTTER SILICONE SEALANT
Substance No: 000703517101

Issued: 08/05/2007

Version: 3



Material Safety Data Sheet

Long Term Effects:

No information available for the product.

Toxicological Data:

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

Oral LD50 (rat): 930 mg/kg (1)

For methyl ethyl ketoxime:

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

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

Product Name: ROOF & GUTTER SILICONE SEALANT
Substance No: 000703517101

Issued: 08/05/2007 **Version:** 3



Material Safety Data Sheet

15. REGULATORY INFORMATION

Classification: Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Poisons Schedule: None allocated.

16. OTHER INFORMATION

(1) Material Safety Data Sheet - Orica Australia Pty Ltd; 05/ 2007.

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 Selleys 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:

5 Yearly 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.

Product Name: ROOF & GUTTER SILICONE SEALANT
Substance No: 000703517101

Issued: 08/05/2007

Version: 3