

Material Safety Data Sheet

SELLEYS

PTY LIMITED

ACN 000 049 427

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

Product name: ENGINEERING SILICONE 401 RTV - BLACK, CLEAR

Synonyms: Acetic acid curing silicone sealant.

CAS-No.:

Molecular Formula:

MANUFACTURER'S CODE:

150g collapsible metal tube - clear
150g collapsible metal tube - black
310g (300mL) plastic cartridge - clear

Supplier: Selleys Pty Limited

ABN: 67 000 049 427

Street Address: 1 Gow Street
Padstow 2211
Australia

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended use: General purpose silicone sealant for adhesive, sealant and form-in-place gaskets.

Appearance: Smooth translucent (or black paste) with a strong odour of acetic acid (vinegar).

CHEMICAL ENTITY	CAS NO.	PROPORTION
Dimethyl polysiloxane	70131-67-8	VHIGH
Fillers and plasticisers	-	MED
Methyltriacetoxysilane	4253-34-3	LOW

		100%

PROPORTION (% weight per weight):

VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

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

3. HAZARDS IDENTIFICATION

Product name: ENGINEERING SILICONE 401 RTV - BLACK, CLEAR

Substance Key: 000703535601

Issued: 30.03.2001

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Based on available information, this material is not classified as hazardous according to health criteria of Worksafe Australia.

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

Poisons Schedule: None allocated

4. FIRST AID MEASURES

Ingestion: Rinse mouth with water. Give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.

Eye contact: Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin contact: Wipe excess material from skin with a dry cloth or a paper towel. Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Combustible paste.

Fire fighting further advice: Combustible paste. On burning will emit toxic fumes including those of carbon monoxide, carbon dioxide, silicon dioxide, acetic acid and formaldehyde. Fire fighters to wear self-contained breathing apparatus 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

FOR SMALL SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wipe excess material off surface with cloth or absorbent paper, avoiding skin contact. Any residual uncured material can be cleaned up with mineral turpentine, or similar hydrocarbon solvent. Cured material can be removed by abrasion.

FOR LARGE SPILLS: Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Collect and seal in properly labelled drums for disposal.

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7. HANDLING AND STORAGE

Storage: Store in a cool, dry place and out of direct sunlight. Store in original container. Keep containers closed at all times.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

However, Exposure Standards for constituent acetic acid (liberated during application and cure):

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Acetic acid	10	25	15	37

As published by the National Occupational Health and Safety Commission (Worksafe Australia).

TWA - the Time-Weighted Average airborne concentrations 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 work day. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

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. 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 measures: Ensure ventilation is adequate and that air concentrations of component is controlled below quoted Exposure Standards. Use with local exhaust ventilation or while wearing organic vapour respirator. Keep containers closed when not in use.

Personal protection equipment: Selleys Safe Handling Code: BLUE

Avoid skin and eye contact and inhalation of vapour. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Wear clean overalls, safety boots, general purpose gloves (PVC) and full-face visor. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If risk of inhalation of high levels of vapours exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Smooth translucent (or black paste) with a strong odour of acetic acid (vinegar).

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Solubility: Insoluble in water. Soluble in most organic solvents before cure. Cured material is insoluble in organic solvents.

Specific Gravity (20 C)	: 1.04	Melting Point (C)	: N App
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: N Av
Vapour Pressure (20 C)	: N Av	Decomp. Point (C)	: N Av
Flash Point (C)	: N Av	Sublimation Point	: N App
Flammability Limits (%)	: N Av	pH	: N App
Autoignition Temp (C)	: 460(approx)	Viscosity	: N Av
% Volatile by volume	: < 5	Evaporation Rate	: N Av
Solubility in water (g/L)	: N Av	(n-Butyl acetate=1)	
(Typical values only - consult specification sheet)			
N Av	=	Not available	N App = Not applicable

10. STABILITY AND REACTIVITY

Stability: No information available.

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 that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Ingestion: Swallowing may result in nausea, vomiting and abdominal pain.

Eye contact: Uncured product may be an eye irritant. Serious irritation of eyes may occur if contact lenses become contaminated with sealant. (1)

Skin contact: Contact with skin may result in irritation.

Inhalation: Acetic acid vapour liberated during application and cure may be irritant to mucous membranes and respiratory tract.

Long Term Effects:

Chronic over-exposure to acetic acid vapours may result in pharyngitis, catarrhal bronchitis and erosion of the teeth. (2) These particular data are not considered relevant to normal industrial use but emphasise the need for care in handling. (No vapour is emitted after full cure.)

Acute toxicity / Chronic toxicity

No LD50 data available for product.

However, for acetic acid liberated during application and cure (1):

Oral LD50 (rat): 3300 mg/kg

Dermal LD50 (rabbit): 1100 mg/kg

Inhalation Lowest Toxic Concentration (rat): 16,000 ppm/4hrs

12. ECOLOGICAL INFORMATION

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Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

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.

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

Based on available information, this material is not classified as hazardous according to health criteria of Worksafe Australia.

Poisons Schedule (Aust)/Toxic Substance (NZ): None allocated

16. OTHER INFORMATION

Literary reference

(1) Material Safety Data Sheet - Acetic acid, glacial; CDS# 980360001;
Orica Australia Pty Ltd; 02/00.

For further copies of this sheet or other product information contact
Selleys Pty Limited Customer Service.
Phone: 1300 555 205 (Australia wide)

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Fax: 1300 555 305 (Australia wide)

This Material Safety Data Sheet has been prepared by Orica SHE Shared Services on behalf of its clients.
Reason(s) For Issue: 5 YEARLY REVISED PRIMARY MSDS

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Orica Limited and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.