

Material Safety Data Sheet



Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
Not classified as a Dangerous Good under NZS 5433:1999 Transport of Dangerous Goods on Land.

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

Product Name: SYLVIC M9

Supplier: Orica New Zealand Limited
Street Address: Orica Chemnet House
Level four, 123 Carlton Gore Road
Newmarket, Auckland
New Zealand
Telephone Number: +64 9 368 2700
Facsimile: + 64 9 368 2710
Emergency Telephone: 0 800 734 607 (ALL HOURS)

2. Composition/information on ingredients

Product Description: Adhesive for timber laminating and finger jointing. Colourless to milky liquid with a faint formaldehyde odour.

Non hazardous component(s)	to 100%	-
Melamine urea formaldehyde resin 25036-13-9	30-60%	-
Formaldehyde 50-00-0	1-<5%	R23/24/25, R34, R40, R41, R43
Methanol (methyl alcohol) 67-56-1	3-<10%	R11 R23/24/25 R39/23/24/25
Water 7732-18-5	30-60%	Non hazardous

3. Hazards identification

Hazard Classification: Subclass 3.1 Category D (low hazard) - Flammable Liquids.
Subclass 6.1 Category D - Substances which are acutely toxic.
Subclass 6.5 Category B - Substances that are contact sensitisers.
Subclass 6.7 Category B - Substances that are suspected human carcinogens.
Subclass 6.9 Category B - Substances that are harmful to human target organs or systems.

Toxic Substance: S4 Caution.

4. First-aid measures

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

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Inhalation: Remove victim from area of 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. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. A component of this material can be absorbed through the skin with resultant toxic effects. Seek immediate medical assistance.

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. Seek medical advice.

Notes to physician: Treat symptomatically.

5. Fire-fighting measures

Specific Hazards: Combustible liquid.

Fire-fighting advice: On burning will emit toxic fumes, including those of oxides of carbon and formaldehyde. If safe to do so, remove containers from path of fire. 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

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. Handling and storage

Handling advice: Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Storage advice: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

This material is a Toxic Substance S4 and must be stored, maintained and used in accordance with the relevant regulations.

8. Exposure controls/personal protection

Occupational Exposure Limits:

No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for constituent(s):

Formaldehyde: Ceiling 1 ppm (1.2 mg/m³), A2 Suspected Human Carcinogen, Sen

Methyl alcohol: WES-TWA 200 ppm, 262 mg/m³; WES-STEL 250 ppm, 328 mg/m³, skin, bio

As published by the New Zealand Occupational Safety and Health Service (OSH).

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure

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standard is designed to protect the worker from the effects of long-term exposure.

WES - STEL (Workplace Exposure Standard - Short Term Exposure Limits) - The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both short-term and eight-hour, time-weighted average exposures should be determined.

WES - Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded during any part of the working day.

'Sen' Notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

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

Carcinogen Category A2 - Suspected human carcinogen.

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.

'bio' - Biological Exposure Index.

Engineering Control Measures:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing suitable mist respirator. Keep containers closed when not in use.

Personal Protective Equipment:

Orica Personal Protection Guide No. 1, 1998: G - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk 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. Wash contaminated clothing and other protective equipment before storage or re-use.

9. Physical and chemical properties

Physical state:	Liquid
Colour:	Colourless to Milky
Odour:	Faint , Formaldehyde
Solubility:	Miscible with water.
Specific Gravity:	1.133 @ 20°C
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	69
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	40
Solubility in water (g/L):	Miscible

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Melting Point/Range (°C): N App
Boiling Point/Range (°C): 97
pH: 9
Viscosity: 8-12 Ps
Evaporation Rate: N Av

10. Stability and reactivity

Stability: Incompatible with oxidising agents .

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 can result in nausea, vomiting, diarrhoea and abdominal pain. Acute methanol poisoning causes effects such as those observed for alcohol, except methanol exposure can lead to permanent damage to the nervous system and effects on the optic nerve. Exposure to methanol from skin contact, inhalation or swallowing, at concentrations greater than 1000 ppm can result in permanent central nervous system effects and blindness.

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Component/s of this material can be absorbed through the skin with resultant toxic effects.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea.

Long Term Effects:

No information available for the product. Exposure to methanol from skin contact, inhalation or swallowing, at concentrations greater than 1000 ppm can result in permanent blindness and central nervous system effects. (1)

Toxicological Data:

No LD50 data available for the product. However, for constituent(s) Methanol (1):

Oral LD50 (rat): 5628 mg/kg.
Inhalation LC50 (rat): 64000 ppm/4h.
SKIN: Moderate irritant (rabbit).
EYES: Moderate irritant (rabbit).

12. Ecotoxicological information

Avoid contaminating waterways.

13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by an approved agent.

14. Transport information

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Road and Rail Transport

Not classified as a Dangerous Good under NZS 5433:1999 Transport of Dangerous Goods on Land.

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:	Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
Hazard Category:	Subclass 3.1 Category D (low hazard) - Flammable Liquids. Subclass 6.1 Category D - Substances which are acutely toxic. Subclass 6.5 Category B - Substances that are contact sensitisers. Subclass 6.7 Category B - Substances that are suspected human carcinogens. Subclass 6.9 Category B - Substances that are harmful to human target organs or systems.
Risk Phrase(s):	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R40: Limited evidence of a carcinogenic effect. R43: May cause sensitisation by skin contact. R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
Safety Phrase(s):	S23: Do not breathe vapour/mist. S24/25: Avoid contact with skin and eyes. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
Toxic Substance:	S4 Caution.

16. Other information

(1) Material Safety Data Sheet - Orica Australia Pty Ltd; 07/ 2002.

This material safety data sheet has been prepared by SH&E Shared Services, Orica.

Reason(s) for Issue:

Change in Hazardous Substance Classification
Change in labelling requirements

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.

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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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