



Material Safety Data Sheet

*This material is hazardous according to criteria of NOHSC.
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: LIQUID NAILS (SOLVENT BASED)

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: High strength building adhesive. Bonds solvent sensitive materials such as polystyrene. Beige paste with a petrol odour.

Components / CAS Number	Proportion	Risk Phrases
Kaolin 1332-58-7	10-<30%	-
Calcium carbonate 471-34-1	10-<30%	Non hazardous
Synthetic polymer(s) -	10-<30%	-
Ingredients determined not to be hazardous	to 100%	-
n-Hexane 110-54-3	1-<10%	R11, R38, R48/20, R51/53, Repr. Cat.3 R62, R65, R67
Naphtha (petroleum), hydrotreated light 64742-49-0	30-60%	R11, R51/53, R65

3. Hazards identification

Risk Phrases: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Possible risk of impaired fertility.

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. 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 discoloration 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:** Wipe excess material from skin with a clean rag or paper towel (do NOT use solvent to clean skin). If skin contact occurs, 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, do NOT induce vomiting. Give a glass of water. Seek medical advice.
- Notes to physician:** Treat symptomatically.

5. Fire-fighting measures

- Specific Hazards:** Flammable paste. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.
- Fire-fighting advice:** On burning will emit toxic fumes. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. 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:** 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.

LARGE SPILLS: Shut off all possible sources of ignition. Clear area of all unprotected personnel. 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. If contamination of sewers or waterways has occurred advise local emergency services.

7. Handling and storage

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

Storage advice: Store in cool place and out of direct sunlight. Store in a well ventilated area away from foodstuffs, oxidising agents and sources of heat or ignition. 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):

Hexane (n-Hexane): 8hr TWA = 72 mg/m³ (20 ppm)

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. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected.

Personal Protective Equipment:

Selleys Safe Handling Code: Yellow

Yellow - Wear clean overalls, safety boots, general purpose gloves, full face visor and respirator with remote canister 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:	Paste
Colour:	Beige
Odour:	Hydrocarbon
Solubility:	Insoluble in water.
Specific Gravity:	1.09-1.13@20°C
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	9 kPa

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Flash Point (°C):	-15
Flammability Limits (%):	1-7
Autoignition Temperature (°C):	>200
% Volatile by Weight:	30
Solubility in water (g/L):	Insoluble
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	75-100
Decomposition Point (°C):	N Av
pH:	N App
Viscosity:	N Av
Evaporation Rate:	6

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 and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs.
- Eye contact:** May be an eye irritant.
- Skin contact:** Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
- 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. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Long Term Effects:
No information available for the product.

Toxicological Data:
No LD50 data available for the product.

12. Ecotoxicological information

Avoid contaminating waterways.

13. Disposal considerations

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

14. Transport information

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No: 1133
Class-primary: 3 Flammable Liquid
Packing Group: III
Proper Shipping Name: ADHESIVES

Hazchem Code: 3[Y]

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No: 1133
Class-primary: 3 Flammable Liquid
Packing Group: III
Proper Shipping Name: ADHESIVES

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1133
Class-primary: 3 Flammable Liquid
Packing Group: III
Proper Shipping Name: ADHESIVES

15. Regulatory information

Classification: This material is hazardous according to criteria of NOHSC.
Xn: Harmful

Risk Phrase(s): R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R62: Possible risk of impaired fertility.

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Safety Phrase(s): S9: Keep container in a well ventilated place.
S16: Keep away from sources of ignition - No smoking.
S24/25: Avoid contact with skin and eyes.
S29: Do not empty into drains.
S51: Use only in well ventilated areas.

Poisons Schedule: None allocated.

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

16. Other information

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:

Change to Poisons Requirements
Change in Hazardous Substance Classification

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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