



# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** LIQUID NAILS (SOLVENT BASED)

**Recommended Use:** High strength building adhesive.

**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

This material is hazardous according to criteria of ASCC; HAZARDOUS SUBSTANCE.

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

**Risk Phrases:** Highly Flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Vapours may cause drowsiness and dizziness.

**Safety Phrases:** Keep container in a well ventilated place. Keep away from sources of ignition - No Smoking. Avoid contact with skin and eyes. Do not empty into drains. Use only in well ventilated areas.

**Poisons Schedule:** None allocated.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Synthetic polymer(s)	30-60%	-
-		
Kaolin 1332-58-7	10-<30%	-
Calcium carbonate 471-34-1	10-<30%	-
Heptane and isomers	10-<30%	R38 R65 R67
-		

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Cyclohexane 110-82-7	10-<30%	R11 R38 R50/53 R65 R67
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	1-<10%	R11, R51/53, R65
Methyl cyclohexane 108-87-2	1-<10%	R11 R38 R51/53 R65 R67
Ingredients determined not to be hazardous	to 100%	-

## 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.

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

## 5. FIRE FIGHTING MEASURES

**Hazards from combustion products:** Flammable paste. On burning will emit toxic fumes, including those of oxides of carbon.

**Precautions for fire fighters and special protective equipment:** 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

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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).

**Hazchem Code:** 3[Y]

## 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 wet. 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.

## 7. HANDLING AND STORAGE

**Conditions for safe storage:** 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.

**Precautions for safe handling:** Keep out of reach of children. Avoid skin and eye contact and breathing in vapour. May form flammable vapour mixtures with air. 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.

## 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):

Cyclohexane: 8hr TWA = 350 mg/m<sup>3</sup> (100 ppm), 15 min STEL = 1,050 mg/m<sup>3</sup> (300 ppm)

Heptane: 8hr TWA = 1640 mg/m<sup>3</sup> (400 ppm), 15 min STEL = 2050 mg/m<sup>3</sup> (500 ppm)

Hexane (n-Hexane): 8hr TWA = 72 mg/m<sup>3</sup> (20 ppm)

Methylcyclohexane: 8hr TWA = 1610 mg/m<sup>3</sup> (400 ppm)

As published by the National Occupational Health and Safety Commission.

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TWA - The time-weighted average airborne concentration 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 this concentration 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. 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. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

## Personal Protective Equipment:

Selleys Factory Safe Handling Code: Yellow

MANUFACTURE, PACKAGING AND TRANSPORT: 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.

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:	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
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

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<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame.
<b>Incompatible materials:</b>	Incompatible with oxidising agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon.
<b>Hazardous reactions:</b>	Hazardous polymerisation will not occur.

## 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 will 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. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

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**Disposal methods:** 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; DANGEROUS GOODS.

**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; DANGEROUS GOODS.

**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; DANGEROUS GOODS.

**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 ASCC; HAZARDOUS SUBSTANCE.

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**Hazard Category:** Xn: Harmful  
Xi: Irritant

**Risk Phrase(s):** R11: Highly Flammable.  
R38: Irritating to skin.  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R62: Possible risk of impaired fertility.  
R67: Vapours may cause drowsiness and dizziness.

**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 in Hazardous Substance Classification  
Alignment to HSNO 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.

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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