

Material Safety Data Sheet

NORDALE AUSTRALIA

ACN: 66 114 879 122

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **NORDALE 2000 LAMINATING ADHESIVE**

PRODUCT CODE: xxxx NORDALE 2000 20 It CLEAR, GREEN AND RED.
 xxxx NORDALE 2000 200 It CLEAR AND RED.

Recommended use: Polychloroprene spray contact adhesive for laminating applications.

SUPPLIER: Nordale Australia Phone: (03) 9357 7100
 70 Link Drive Fax: (03) 9357 0698
 Cambellfield Vic 3061

Emergency telephone number: (03) 9330 7777 (Business hours only, Monday – Friday, AEST)

After hours: 0414 417 053 Frank Cerra
 0408 612 556 Graham Prisk

2. HAZARDS IDENTIFICATION

This material is **Hazardous** according to health criteria of NOHSC Australia.

Hazard Category:

Xn Harmful
Xi Irritant

Risk Phrase(s):

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/38: Irritating to skin and eyes.
R63: Possible risk of harm to the unborn child.
R65: Harmful: May cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.

Safety Phrase(s):

S16: Keep away from sources of ignition – no smoking.
S23/24/25: Avoid contact with skin and eyes and avoid breathing vapour.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharge.

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

Class: 3 Flammable Liquid

Poisons Schedule (Aust): S5

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3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Acetone	67-64-1	10-30 %
n-hexane	110-54-3	< 1%
Toluene	108-88-3	10-30 %
Light aliphatic petroleum solvent	64742-89-8	30-60 %
Ingredients determined to be non-hazardous	-	Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

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. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Wash skin with plenty of soap and water. If swelling, redness, blistering, or irritation occurs seek medical assistance. Allow clothing to air dry thoroughly and launder before re-use.

Eye contact: If in eyes wash out immediately with copious amounts of water, holding eyelids open. Seek medical advice.

Ingestion: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. (Never give anything by the mouth to an unconscious patient). Consult a doctor. If vomiting occurs give further water. Get to a doctor or hospital quickly.

Notes to physician: Treat symptomatically. Effects may be delayed.

5. FIRE-FIGHTING MEASURES

Specific hazards: Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. 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 further advice: If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning, may emit carbon monoxide, carbon dioxide and other unidentified decomposition products. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Do not let contaminated extinguishing water enter into the soil, groundwater or surface waters.

Hazchem Code: 3[Y]E

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Suitable extinguishing media: If material is involved in a fire use water fog, foam, or dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

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 contamination and the inhalation of 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

Handling: Avoid skin and eye contact and inhalation of vapour. Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work. Keep working clothes separate.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Do NOT allow temperature to reach 40°C. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers tightly closed when not in use - check regularly for leaks.

Ensure adequate ventilation or exhaust ventilation in the work area.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

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

However, this material contains the following materials for which exposure limits have been set by NOHSC Australia.

Acetone	67-64-1	TWA: 500 ppm (1185 mg/m ³) STEL: 1000 ppm (2375 mg/m ³)
n-hexane	110-54-3	TWA: 20 ppm (72 mg/m ³) STEL: NOT NOTED
Toluene	108-88-3	TWA: 50 ppm (180 mg/m ³) STEL: 150 ppm (540 mg/m ³)

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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 workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too 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.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Provide explosion proof ventilation sufficient to maintain exposure levels below the listed exposure limits, or wear appropriate respirator. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour (charcoal filter)/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Clear, light brown coloured liquid

Solubility: Immiscible with water

Specific Gravity (20 °C): Approx 0.8

Relative Vapour Density (air=1): Not known

Vapour Pressure (20 °C): Not known

Flash Point (°C): <0

Flammability Limits (%): LEL – 1.1; UEL – 7.4*

Autoignition Temperature (°C): >200

Melting Point/Range (°C): N App

Boiling Point/Range (°C): N Av

pH: N App

* Value for iso-hexane

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

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10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous decomposition products: Non if handled and stored correctly. No decomposition below boiling point. If heated above boiling point, possible formation of carbon monoxide, carbon dioxide and other unidentified decomposition products.

Hazardous reactions: If heated, closed containers may rupture owing to increase in pressure.

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:

Acute Effects

Inhalation: Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can also produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin may result in irritation. Frequent or prolonged contact may cause dermatitis.

Eye contact: Irritant.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia, chemical pneumonitis or pulmonary oedema.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for the product.

However, for the constituent Toluene :

Oral LD50 (rat): 636 mg/kg

Dermal LD50 (rabbit): 14100 µl/kg

Skin: (Draize): Mild to moderate irritant

Eyes: (Draize): Mild to moderate irritant

The major effects in humans following acute exposure to high concentrations (such as deliberate sniffing or industrial accidents) are central nervous system dysfunction and narcosis.

Under controlled conditions, inhalation of 50, 75 or 100 ppm of toluene for 4 to 6 hours was associated with headache and irritation. There are also numerous reports of altered central nervous system performance among humans inhaling 40ppm to more than 100ppm.

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12. ECOLOGICAL INFORMATION

Avoid contaminating soil, groundwater or waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

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
Dangerous Goods Class:	3
Packing Group:	II
Hazchem Code:	3[Y]E
Emergency Response Guide No:	14

Proper Shipping Name: ADHESIVE containing flammable liquid

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

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
Dangerous Goods Class:	3
Packing Group:	II

Proper Shipping Name: ADHESIVE containing flammable liquid

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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

Dangerous Goods Class: 3

Packing Group: II

Proper Shipping Name: ADHESIVE containing flammable liquid

15. REGULATORY INFORMATION

Poisons Schedule (Aust): S5

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

16. OTHER INFORMATION

Reason(s) For Issue: NEW PRODUCT

Material 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 Zecca Australia Pty Ltd 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.