

Material Safety Data Sheet
Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Company: Atherton Chemicals
Address: 47 Industrial Park Drive, Lilydale VIC 3140
Phone: 03 97394311
Mobile: 0417145022
Fax: 0397394355
Emergency: Poisons Information center
Phone: 131 126
0800 764 766 (New Zealand)

PRODUCT NAME: Vinidex LOW VAPOUR SOLVENT CEMENT

USE: Type N Adhesive/Solvent Cement for non-pressure joints in PVC pipes/fittings and electrical conduit (brush application)

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of NOHSC Australia.

Hazard Category:

Xi Irritant

Risk Phrase(s):

R36/38: Irritating to eyes and respiratory system.

Safety Phrase(s)

S2: Keep out of reach of children

S25: Avoid contact with eyes.

S41: In case of fire and/or explosion, do not breath fumes.

Poisons Schedule (Aust): S6

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION % w/w
N-methyl-2-pyrrolidone (NMP)	872-50-4	60 - 100
Polyvinyl chloride resin	n/a	10 - 30
Other ingredients which are classified as not hazardous		to 100%

4. HAZARDS IDENTIFICATION

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. Seek medical advice if effects persist.

Skin contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek 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, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Combustible material.

Fire fighting further advice: On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, 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

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.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Handling: Avoid eye contact and repeated or prolonged skin contact.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

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 for:

	TWA		STEL	CARCINOGEN	NOTICES
	ppm	mg/m ³	ppm	mg/m ³ CATEGORY	
N-Methylpyrrolidone	100				

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

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 following ingredients in this material requires Health Surveillance:

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Natural ventilation should be adequate under normal use conditions.

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 reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light yellow viscous liquid
Odour:	A slight amine odour
Melting Point:	Not established for this product. (NMP = -23.6°C)
Vapour Pressure:	Not established for this product. (NMP = 0.32mm Hg.) -
Oil/Water Coefficient:	0.46. (based on NMP)
Vapour Density:	3.42 (air = 1)
Specific Gravity:	1.07 -1.09
Evaporation Rate:	Not established
Boiling Point (°C):	> 200
Percent Volatile: Flash Point:	> 80% > 90°C
Solubility In Water:	Partly Miscible
pH:	>8.5 (100g/L water)
Viscosity (cps @ 20°C):	700 – 800
Autoignition temperature:	245°C
Other Properties:	VOC= 885g/l

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

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: Strong Acids, strong alkalies and oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: Exothermic reaction with strong acids or alkalies. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity: ACUTE EFFECTS: N-Methylpyrrolidone

Oral LD50 (rat) :	3.6g/kg
Inhalation LC50 (rat):	>5.1mg/L/4hours. (No mortalities within 8 hours in animal studies).
Skin LD50 (rabbit):	8g/kg
Skin Irritation:	moderately irritating to human skin
Eye Irritation:	irritating to rabbit eyes

CHRONIC (or delayed) EFFECTS:

Indications of a developmental toxic/teratogenic effect were seen in animal studies.

12. ECOLOGICAL INFORMATION

Acute Toxicity: Overall Product

Fish: (Leuciscus Idus)	LC50 >500mg/L (96hr.)
Daphnia Magna:	EC50 >1000mg/L (24hr.)
Sc. subspicatus:	EC50 >500mg/L (72hr.)
Activated Sludge:	EC50 >600mg/L (30min.)

Biodegradation: Solvent in this product readily biodegrades. The COD for the solvent is 1600mg/L. The resin does not biodegrade.

Bioconcentration: The solvent in this product is not expected to bioaccumulate in aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal: There are many pieces of legislation covering waste disposal and they differ in each State and Territory. Check with your Local Waste Authority as to the correct means of disposal. Certain waste products need to be tracked with proven traceability. Check with the Authority to determine if the product can go to landfill or must be incinerated. Do NOT use the container for any other purpose.

14. TRANSPORT INFORMATION

This product is not subject to transport regulations. However, the product is a combustible liquid and its vapours are capable of producing an explosive atmosphere. Guard against overheating, static discharge and keep away from ignition sources. Similarly, this product is not compatible with oxidising agents, strong acids or strong bases. Load the transport vehicle in a manner that ensures separation of this product from the aforementioned substance classes.

U . N . N u m b e r :	None allocated
Dangerous Goods Class:	None allocated
Subsidiary Risk:	None allocated
Hazchem Code:	None allocated
Poisons Schedule Number:	6
Packaging Group:	None allocated
EPG:	None allocated

Road and Rail Transport

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

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDB) Code for the 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

Poisons Schedule (Aust): S6

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

16. DISPOSAL CONSIDERATIONS

CONTACT POINTS

POISONS INFORMATION CENTRE: **131126** (from anywhere in Australia)

POLICE OR FIRE BRIGADE: 000 **EXCHANGE: 132203**

Name: John Spero Title: Development Chemist

Signature: Tel. No.: 0417145022

Literary reference

This Material Safety Data Sheet has been prepared by Atherton Chemicals on behalf of its client.

Reason(s) For Issue: Revision and update of information.

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 Atherton Chemicals 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.