

Product **Vector VP**

Product Code **VP60**

Last Revision October 2013

Version 3

COMPANY DETAILS

COMPANY NAME: ADM – Australian Dental Manufacturing
ACN: 010 967 432

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PRODUCT INFORMATION

PRODUCT NAME: Vector VP

UN Number	1133
Dangerous Goods Class	3
Hazchem Code	3[Y]E
Packaging Group	I
Poison Schedule	5
Product Use	Silicone Tray Adhesive

COMPOSITION

Chemical Composition	CAS number	Proportion
HAZARDOUS INGREDIENTS:		
Silicone Resins	556-67-2 & 68440-70-0	30-60%
Xylene	1330-20-7	2%
Heptane	142-82-5	30-60%

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PHYSICAL AND CHEMICAL DATA

Appearance:	Blue Coloured liquid
Odour	Hydrocarbon Solvent Odour
Melting Point:	Not Available
Boiling Point	>98°C (Solvent Component)
Vapour Pressure @ 20°C	5.1 mm Hg (Xylene) 40 mm Hg (Heptane)
Specific Gravity	0.7 – 0.8
Flash Point	-3.9°C (Solvent Component)
Flammable Limits	LEL: 1% (Solvent Component) UEL: 6.7% (Solvent Component)
Auto ignition Temperature	>215°C (Solvent Component)
Corrosiveness	Not Corrosive
Solubility	Insoluble in Water Soluble in Hydrocarbon Solvents

HEALTH HAZARDS IDENTIFICATION

This Product is classified as hazardous according to criteria of NOHSC due to its flammability.

ACUTE EFFECTS

INGESTION:

- Harmful if swallowed. May cause irritation to the mouth and gastro-intestinal tract. Early symptoms likely to be nausea, abdominal irritation, pain, vomiting, pulmonary irritation.

EYE

- May cause severe irritation to eyes.

SKIN:

- Repeated or prolonged exposure to skin may cause irritation due to defatting effect on skin.

INHALED

- May cause irritation of respiratory tract, headaches, dizziness, loss of coordination, nausea and other effects of the central nervous system.

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FIRST AID

INGESTION:

- Do not induce vomiting because of risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person seek urgent immediate medical attention.
- For minor ingestion rinse mouth and give water to drink. Watch for toxic symptoms.

EYE:

- Open eye lids to irrigate the eye with copious amounts of water for 15 minutes. If eyes continue to be affected seek immediate medical attention.

SKIN:

- Remove contaminated clothing immediately. Wash affected areas with soap and water. If irritation occurs seek medical attention.

INHALED:

- If inhaled, immediately remove person to fresh air until fully recovered. If person is not breathing, open airway and administer CPR (artificial respiration). Administer oxygen if breathing is difficult. Seek urgent medical attention.

EXPOSURE CONTROLS/PERSONAL PROTECTION

In accordance with the criteria of NOHSC this Product is classified as hazardous.

Name of Volatile Chemical	CAS No.	Exposure Limits
Heptane	142-82-5	TWA: 400ppm; STEL: 500ppm NOHSC TWA: 400ppm; STEL: 500ppm ACGIH TLV
Xylene	1330-20-7	TWA: 80ppm; STEL: 150ppm NOHSC TWA: 100ppm; STEL: 125ppm OSHA PEL & ACGIH TLV
Octamethylcyclotetrasiloxane	556-67-2	TWA: 10ppm

Personal Protection

- Use gloves and safety glasses when handling the product.
- Use product in well ventilated area – the use of masks is not normally needed. If misting in confined areas and there is a risk of inhalation, wear approved respiratory protection.
- Respirators should comply with AS 1716 and be used in accordance with AS 1715.

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Engineering Controls	- Follow procedures to avoid static discharges. Use non-spark tools and flameproof equipment. - The Product contains flammable solvents, therefore when using the product in a confined area it is recommended that the above exposure limits. - Provide ventilation to control exposure level below airborne exposure limits. Avoid skin and eye contact. It is recommended to wear, safety glasses and solvent resistant gloves when handling the product. Always wash hands before eating and drinking. - If there is risk of inhalation wear approved respiratory protection. Respirators should comply with AS1716 and should be used in according with AS1715. - TWA is the time-weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. This concentration should neither impair the health, or not cause undue discomfort to, nearly all workers according to current information. - STEL (Short Term Exposure Limit) is the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day.
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COMBUSTIBILITY	
FIRE HAZARD & EXPLOSION:	- Product contains highly flammable solvents. - Isolate from sources of heat, naked flames or sparks. - If leakage of a container occurs evacuate the area. - The container may release flammable vapours at ambient temperatures and readily forms a flammable mixture with air. Vapours are heavier than air and may travel long distances to a point of ignition and flash back. - If practical remove the container outside if safe to do so – do not endanger life. - Container may explode in heat or fire. Use water to keep the container cool. Notify emergency services. - For small fires use dry chemical, CO₂ or foam extinguishers
COMBUSTION PRODUCTS	- The ingredients will breakdown under fire conditions. Decomposition products are Carbon Dioxide, Water Vapour, traces of Carbon Monoxide. Fumes, smoke and Carbon Monoxide can be formed during incomplete combustion. - Fire fighters may need self-containing breathing apparatus.

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ACCIDENTAL RELEASE MEASURES

- Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Wipe up small spills with paper toweling and dispose to bin. Disposal of waste must be in accordance with the Local Waste Disposal Authority.
- Prevent runoff to drains leading to waterways. Wash contaminated area liberally with detergent and water.
- For large spills or leaks in confined areas explosive conditions may occur, restrict persons not wearing protective equipment from the area of spill or leak until cleanup is complete.
- Ventilate the area of spill or leak.
- Water spray may be used to disperse vapours.
- Absorb liquids in vermiculite, dry sand, earth or inert material and deposit in an appropriate waste disposal container.
- For large spills or leaks it may be necessary to dispose of the product as a Hazardous waste. Contact your local EPA or authority for specific recommendations.

HANDLING & STORAGE

- Product to be handled only by qualified staff in dental offices/laboratories.
- See product instructions for safe use
- Store in a cool well ventilated place out of direct sunlight.
- Store away from strong oxidizing agents and acids.
- Store below 25°C keep away from sources of heat; do not drop.
- Keep away from sources of static electricity.
- Protect containers from physical damage, keep containers closed when not in use, check regularly for leaks.
- Avoid contact with skins and eyes.
- Avoid breathing vapours
- Do not store together with food.
- Comply with the current issue of the Australian Code for the Transportation of Dangerous Goods by Road and Rail and with relevant Dangerous Goods Legislation in each State or Territory.

Risk Phrases

R11: Highly Flammable
R26: Harmful by inhalation
R36: Irritating to eyes
R38: Irritating to skin

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Safety Phrases

S2: Keep out of reach of children
S9: Keep container in well ventilated place
S16: Keep away from sources of ignition – no smoking
S23: Do not breath gas/fumes/vapour/spray
S24/25: Avoid contact with skin and eyes
S29: Do not empty into drains
S38: In case of insufficient ventilation use suitable respiratory equipment
S62: If swallowed, do not induce vomiting; seek medical attention immediately and show the container or label.

STABILITY & REACTIVITY

REACTIVITY

Stable at normal temperatures and pressure.

CONDITIONS TO AVOID:

Avoid sources of heat and ignition.
Avoid contact with incompatible materials.

INCOMPATIBLES:

Reacts with strong oxidizing agents (such as Chlorine, Bromine, Fluorine).

TOXICOLOGICAL INFORMATION

SYMPTOMS: No adverse health effects are expected if this product is handled in accordance with this Material Safety Data Sheet and the Product label/instructions.

If the product is spilled or mishandled, symptoms noted in section "Acute Effect" may occur:

Long Term Effects:

No specific data is available for this product however the following information on the hazardous ingredients are presented:

Xylene	
Oral LD 50 (Rat)	4,300 mg/kg
IPR (Mouse)	1.6 mg/kg
SCU (Rat)	1,700 mg/kg

Heptane	
Oral LD 50 (Rat)	260 mg/kg
INV (Mouse)	222 mg/kg

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Long-term occupational skin exposure to the solvent components has reportedly caused dermatitis and cracking of the skin due to defatting of the skin.

Long term exposure to the product by inhalation and skin absorption may cause internal injury to the following organs: lungs, liver, kidneys, nervous system, reproductive system, blood and bone marrow.

There is no evidence of Carcinogenic, Teratogenic, Mutagenic effects with these ingredients. Silicone resin (556-76-2) has reportedly caused reproductive effects in laboratory animals.

Repeated inhalation or oral exposure of the silicone resin to mice and rats produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. Good industrial hygiene practice minimizes inhalation exposure to any chemical. The significance of these findings to humans is not known.

No other long-term effects have been reported for the other ingredients.

ECOLOGICAL INFORMATION

- Spillages from the small packaging of this product are unlikely to penetrate soils. The solvents used in this product are volatile and will partition to the atmosphere. The resin component will harden quickly and remain inert with no water-soluble material to leach into the environment.
- Unlikely to cause long term adverse effects in the environment. This material is not expected to bioaccumulate.
- As the solvent component is likely to vaporize quickly it is unlikely to reach waterways to cause long-term effect to the aquatic environment. No specific toxicity data to aquatic organisms is available for this product.
- The ingredients are completely biodegradable.
- No long-term persistent effects are expected. Due to the small package size spillages are unlikely to be a nuisance to the environment. If released to penetrate soils the resin component will be absorb on the soil and become immobile.
- The product is insoluble in water and unlikely to reach waterways.

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DISPOSAL CONSIDERATIONS

Dispose containers thoughtfully to landfill.

TRANSPORT INFORMATION

Classified as a highly flammable liquid gas for transport (ADG, UN, IATA)

UN NUMBER	1133
CLASS	3
SUBSIDIARY RISK:	Nil
HAZCHEM CODE:	3[Y]E
Packaging Group	I

REGULATORY INFORMATION

From information available, this Product is not classified using the criteria of NOHSC.

CONTACT POINT

CONTACT:	Business Hours:	07 38781901
	Mobile:	0419665074
	Emergency	131 126

This MSDS summarises our best knowledge of the health and safety hazard information of this Product and how to safely handle and use the product in the workplace.

Each user should read this MSDS and consider the information in the context of how the Product will be handled and used in the workplace including its use in conjunction with other products. If clarification of any term in this MSDS or further information is required to ensure safe use of this Product can be made the user should contact ADM – Australian Dental Manufacturing

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OTHER INFORMATION

This MSDS is prepared with consideration of the document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2nd Edition [NOHSC:2011(2003)], Worksafe Australia.

Contact Points:

Australia

Police & Fire:

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National Poisons Information Centre:

131126 (anywhere in Australia)

READ LABEL CAREFULLY BEFORE USING PRODUCT

END OF MSDS