

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 01.11.2016

Revision: 01.11.2016

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: VECTOR VP

Other Means of Identification: Mixture

Product Code: VP60

Recommended Use of the Chemical and Restriction on Use: Silicone tray adhesive

Details of Manufacturer or Importer:

Australian Dental Manufacturing
25 Billabong Street ,
Kenmore Hills, QLD, 4069

Phone Number: 07 3878 1901

Emergency telephone number: National Poison Information Centre: 13 11 26

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flammable Liquids 2 H225 Highly flammable liquid and vapour.



health hazard

Toxic To Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

(Contd. on page 2)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 01.11.2016

Revision: 01.11.2016

Product Name: VECTOR VP

(Contd. of page 1)

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P273	Avoid release to the environment.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P391	Collect spillage.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

556-67-2	Octamethylcyclotetrasiloxane ⚠ Flammable Liquids 3, H226; ⚠ Toxic To Reproduction 2, H361; Aquatic Chronic 4, H413	30 - 60%
68440-70-0	Siloxanes and silicones, dimethyl, hydroxy terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate Aquatic Chronic 4, H413	30 - 60%
142-82-5	Heptane ⚠ Flammable Liquids 2, H225; ⚠ Aspiration Hazard 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	30 - 60%
1330-20-7	Xylene ⚠ Flammable Liquids 3, H226; ⚠ Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332; Skin Corrosion/Irritation 2, H315; STOT SE 3, H335	2%

(Contd. on page 3)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 01.11.2016

Revision: 01.11.2016

Product Name: VECTOR VP

(Contd. of page 2)

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. May cause drowsiness and dizziness, headache, and nausea. May cause Central Nervous System (CNS) effects including incoordination.

Skin Contact: Causes skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. May be fatal if swallowed and enters airways.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, water vapour and smoke.

Product is highly flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Small spills can be cleaned up with paper towels. Use only non-sparking tools. Wash area with plenty of water.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

This product is only to be used by qualified dental staff.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only
(Contd. on page 4)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 01.11.2016

Revision: 01.11.2016

Product Name: VECTOR VP

(Contd. of page 3)

in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area out of direct sunlight. Protect from heat, static electricity, sparks, open flames and other sources of ignition. Store at below 25 °C. Protect containers from physical damage. Check regularly for leaks. Keep away from strong oxidising agents such as chlorine, bromine and fluorine.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:**142-82-5 Heptane**

WES	STEL: 2050 mg/m ³ , 500 ppm TWA: 1640 mg/m ³ , 400 ppm
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1330-20-7 Xylene

WES	STEL: 655 mg/m ³ , 150 ppm TWA: 350 mg/m ³ , 80 ppm
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Liquid
Colour:	Blue
Odour:	Hydrocarbon solvent odour
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	>98 °C (solvent component)
Flash Point:	-3.9 °C (solvent component)

(Contd. on page 5)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 01.11.2016

Revision: 01.11.2016

Product Name: VECTOR VP

(Contd. of page 4)

Flammability:	Highly flammable.
Auto-ignition Temperature:	>215 °C (solvent component)
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	1 % (solvent component)
Upper:	6.7 % (solvent component)
Vapour Pressure at 20 °C:	53.32 hPa (heptane)
Relative Density:	0.7 - 0.8
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble in water.
Solubility in Solvents:	Soluble in hydrocarbon solvents.
Partition Coefficient (n-octanol/water):	No information available

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: Strong oxidising agents such as chlorine, bromine and fluorine.

Hazardous Decomposition Products: Oxides of carbon, water vapour and smoke.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

142-82-5 Heptane

Oral	LD ₅₀	260 mg/kg (rat)
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1330-20-7 Xylene

Oral	LD ₅₀	4300 mg/kg (rat)
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Dermal	LD ₅₀	2000 mg/kg (rabbit)
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Acute Health Effects

Inhalation:

May cause respiratory irritation. May cause drowsiness and dizziness, headache, and nausea. May cause Central Nervous System (CNS) effects including incoordination.

Skin: Causes skin irritation.

Eye: May cause eye irritation.

Ingestion:

May cause gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. May be fatal if swallowed and enters airways.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Xylenes are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

(Contd. on page 6)

SAFETY DATA SHEET

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Product Name: VECTOR VP

(Contd. of page 5)

Reproductive Toxicity:

Suspected of damaging fertility or the unborn child.

Octamethylcyclotetrasiloxane is classified by Safe Work Australia as Toxic to Reproduction Category 3.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause drowsiness and dizziness.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: May be fatal if swallowed and enters airways.**Chronic Health Effects:**

Repeated or prolonged skin exposure may cause de-fatting of the skin, dermatitis and skin cracking.

Long term exposure may cause damage to the lungs, liver, kidneys, nervous system, blood and bone marrow.

12 . ECOLOGICAL INFORMATION

Ecotoxicity:**Aquatic toxicity:** Very Toxic to aquatic life with long lasting effects.**Persistence and Degradability:** This product is completely biodegradable.**Bioaccumulative Potential:** Bioaccumulation is not expected to occur.**Mobility in Soil:**

This product is not considered to be mobile in soil. The solvents of this product are volatile and will not penetrate the soil. The resin component will absorb into the soil and become immobile.

Other adverse effects: No further relevant information available.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number ADG, IMDG, IATA	UN1133
Proper Shipping Name ADG, IMDG, IATA	ADHESIVES containing flammable liquid
Dangerous Goods Class ADG Class:	3 Flammable liquids.
Packing Group: ADG, IMDG, IATA	I
Marine pollutant:	Yes Symbol (fish and tree)
EMS Number:	F-E,S-D
Hazchem Code:	.3YE
Special Provisions:	Not applicable
Limited Quantities:	500 mL
Packagings & IBCs - Packing Instruction:	P001

(Contd. on page 7)

SAFETY DATA SHEET

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Product Name: VECTOR VP

(Contd. of page 6)

Portable Tanks & Bulk Containers - Instructions: T11**Portable Tanks & Bulk Containers - Special Provisions:**

TP1, TP8, TP27

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

556-67-2	Octamethylcyclotetrasiloxane
68440-70-0	Siloxanes and silicones, dimethyl, hydroxy terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate
142-82-5	Heptane
1330-20-7	Xylene

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 5

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 01.11.2016**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Liquids 3: Flammable liquids – Category 3

Acute Toxicity (Dermal) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Toxic To Reproduction 2: Reproductive toxicity – Category 2

Toxic To Reproduction 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment, long-term (Chronic). Category 4

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Australian Dental Manufacturing makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.