



Safety Data Sheet

Barnes Pinkysil Part A

Version: 1.1 (AUS)

Date of print: 05.06.2006

Date of last alteration: 05.04.2006

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC

1 Identification of the substance/preparation and company

1.1 Name of substance/preparation

Commercial product name: Pinkysil® Part A

1.2 Use of substance / preparation:

Industrial and Hobby. Elastomer products

1.3 Company name

Distributor: Barnes Products Pty Limited

Street/POB-No.: PO Box 393

State/postal code/city: Padstow 2211 NSW

Telephone: +612 9793 7555

Telefax: +612 9793 7555

1.4 Australian Emergency Telephone Number:

Emergency Information: Barnes Products +612 9793 7555

2 Composition/information on ingredients

2.1 Chemical characterization (preparation):

Chemical characteristics

Polydimethylsiloxane with functional groups + auxiliaries for addition cross-linking

3 Hazards identification

3.0 This chemical is not classified as Hazardous according to the criteria of NOHSC.
This chemical is not classified as a Dangerous Good.

3.1 Classification:

R-Phrase	Description
R-	-

4 First-aid measures

4.1 General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

4.2 After inhalation:

Material cannot be inhaled under normal conditions.

4.3 After contact with the skin:

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

4.4 After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

4.5 After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

5 Fire-fighting measures

5.1 Suitable extinguishing media:

water spray , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

5.2 Extinguishing media which must not be used for safety reasons:

water jet .

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

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- 5.4 Special protective equipment for fire fighting:**
Use respiratory protection independent of recirculated air.

6 Accidental release measures

- 6.1 Personal precautions:**
No special measures required.
- 6.2 Environmental precautions:**
Prevent material from entering sewers or surface waters.
- 6.3 Methods for cleaning up:**
Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

7 Handling and storage

- 7.1 Handling**
- Precautions for safe handling:**
No special protective measures required.
- Precautions against fire and explosion:**
No special precautions against fire and explosion required.
- 7.2 Storage**
- Conditions for storage rooms and vessels:**
none known
- Advice for storage of incompatible materials:**
not applicable
- Further information for storage:**
Keep container tightly closed. Store in a dry and cool place.

8 Exposure controls and personal protection equipment

- 8.1 Exposure limits**
- Maximum airborne concentrations at the workplace:** not applicable
- 8.2 Exposure limited and controlled**
- 8.2.1 Exposure in the work place limited and controlled**
- General protection and hygiene measures:**
Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.
- Personal protection equipment**
- Respiratory protection:**
not required .
- Hand protection:**
Recommendation: Protective gloves made of butyl rubber . Gloves suitable for up to 60 minutes' use.
- Eye protection:**
Recommendation: protective goggles .
- 8.2.2 Exposure to the environment limited and controlled:**
Prevent material from entering surface waters and soil.



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9 Physical and chemical properties

9.1 General information

Physical state / form.....:	liquid
Colour.....:	white
Odour.....:	odourless

9.2 Important information about the protection of health, safety and the environment

Method (67/548/EEC):

Melting point / melting range.....:	not applicable	
Boiling point / boiling range.....:	not applicable	
Flash point.....:	> 250 °C	
Ignition temperature	> 400 °C	
Lower explosion limit (LEL).....:	not applicable	
Upper explosion limit (UEL).....:	not applicable	
Vapour pressure.....:	not applicable	
Density.....:	1,1 g/cm ³ at 20 °C	(DIN 51757)
Water solubility / miscibility.....:	virtually insoluble	
pH-Value.....:	approx. 7	
Viscosity (dynamic).....:	2500 mPa*s at 23 °C	(BROOKFIELD)

10 Stability and reactivity

10.0 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:

none known

10.2 Materials to avoid:

none known

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

11 Toxicological information

11.0 General information:

According to present experience, the material is neither mutagenic, cancerogenic nor teratogenic. The toxicological results listed below are based on tests with similar materials.

11.1 Toxicological tests

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
oral	> 5000 mg/kg	rat	literature
dermal	> 2008 mg/kg	rat (Limit Test)	test report

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	not irritating	rabbit	test report
to eyes	mildly irritating	rabbit	test report

Sensitization:

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	Magnusson-Kligmann	guinea-pig	test report

Further information:

-



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Reference points for mutagenic (carcinogenic) potential:

Test system	Effect	Source
Bacterial Reverse Mutation Test	not mutagenic	test report

11.2 Experience with man:

Human patch test: Product displays good compatibility with the skin.

11.3 Further toxicological information:

-

12 Ecological information

12.1 Ecotoxicity

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

12.2 Mobility

Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

12.3 Persistence and degradability

Biodegradation / further information:

Biologically not degradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

Further information:

Elimination by adsorption to activated sludge.

12.4 Bio-accumulation potential

Bioaccumulation is not expected to occur.

12.5 Other harmful effects

-

12.6 Additional information

General information:

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 Disposal considerations

13.1 Material

Recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

13.2 Uncleaned packaging

Recommendation:

Containers should be completely emptied before recycling as specified in government regulations. Empty containers should be sent to an approved recycling facility.

13.3 Waste Disposal Legislation Ref.No.(EC):

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.



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14 Transport information

14.1 Land transport GGVSE/ADR and RID

Road ADR:

Valuation.....: Not regulated for transport

Railway RID:

Valuation.....: Not regulated for transport

14.2 Inland navigation GGVBinsch/ADNR

14.3 Transport by sea GGVSee/IMDG-Code

Valuation.....: Not regulated for transport

14.4 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

14.5 Transport/further information

Postal and courier service:

Australian postal despatch...: permitted

15 Regulatory information

15.1 Warning Label (EU)

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

15.2 National regulations:

SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

16 Other information

16.1 Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations.

Properties of the product are to be found in the respective product leaflet.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version.

n.a. = not applicable n.s. = not subject to



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NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC

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1.1 Name of substance/preparation

Commercial product name: Pinkysil® Part B

1.2 Use of substance / preparation:

Industrial and Hobby. Elastomer products

1.3 Company name

Distributor: Barnes Products Pty Limited

Street/POB-No.: PO Box 393

State/postal code/city: Padstow 2211 NSW

Telephone: +612 9793 7555

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1.4 Australian Emergency Telephone Number:

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3 Hazards identification

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This chemical is not classified as a Dangerous Good.

3.1 Classification:

R-Phrase	Description
R-	-

3.2 Further hazards to man and environment:

Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis.

4 First-aid measures

4.1 General information:

-

4.2 After inhalation:

No special measures required.

4.3 After contact with the skin:

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap.

4.4 After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

4.5 After swallowing:

No special measures required. In cases of sickness seek medical advice (show label if possible).

5 Fire-fighting measures

5.1 Suitable extinguishing media:

alcohol-resistant foam , carbon dioxide , sand . Hydrogen gas can become trapped under foam blankets, so sources of ignition must be eliminated during the clean-up and recovery process.

5.2 Extinguishing media which must not be used for safety reasons:

water , extinguishing powder , halones .



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5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

-

5.4 Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

6 Accidental release measures

6.1 Personal precautions:

Secure the area. Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental precautions:

Prevent material from entering surface waters, drains or sewers and open soil. Contain any fluid that runs out using suitable material (e.g. earth). If safe to do so, stop the leak at its source.

6.3 Methods for cleaning up:

For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. Use only air driven or properly rated electrical equipment. Use vented recovery containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

6.4 Further information:

Eliminate all sources of ignition. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10.2. Do not blend contaminated material with uncontaminated material. Observe notes under section 7.

7 Handling and storage

7.1 Handling

Precautions for safe handling:

Use caution when opening any bulging container. Wear all appropriate protective equipment. Work in an open area away from other materials, operations, and sources of ignition. Open slowly to allow a gradual release of pressure. Ensure adequate ventilation. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10.2. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level.

Precautions against fire and explosion:

Product can release hydrogen. In partly emptied containers formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat and sparks. Take precautionary measures against electrostatic charging.

7.2 Storage

Conditions for storage rooms and vessels:

Do not store in glass containers.

Advice for storage of incompatible materials:

Do not store with: basic substances (e.g. alkalis, ammonia, amines) , oxidizing agents , strong acids .

Further information for storage:

Protect against moisture. Store in a dry and cool place. Store container in a well ventilated place.

8 Exposure controls and personal protection equipment

8.1 Exposure limits

Maximum airborne concentrations at the workplace not applicable

8.2 Exposure limited and controlled

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

Personal protection equipment

Respiratory protection:

not required .



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Hand protection:

Recommendation: Protective gloves made of butyl rubber , protective gloves coated with neoprene , PVC gloves . Gloves suitable for up to 60 minutes' use.

Eye protection:

protective goggles .

8.2.2 Exposure to the environment limited and controlled:

Prevent material from introduction into surface water and into soil.

9 Physical and chemical properties

9.1 General information

Physical state / form.....:	liquid
Colour.....:	neon pink
Odour.....:	odourless

9.2 Important information about the protection of health, safety and the environment

**Method
(67/548/EEC):**

Flash point.....:	> 250 °C
Ignition temperature	> 400 °C
Lower explosion limit (LEL).....:	not applicable
Upper explosion limit (UEL).....:	not applicable
Vapour pressure.....:	not applicable
Density.....:	1,1 g/cm ³ at 20 °C
Water solubility / miscibility.....:	virtually insoluble
pH-Value.....:	approx. 7
Viscosity (dynamic).....:	2500 mPa*s at 20 °C

(DIN 51757)

9.3 Other information

According to previous experience spontaneous combustion temperature for polymer siloxane with SiH compounds is above 240 °C (464 °F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V).
Re 9.2 pH Value: Product displays neutral reaction.

Thermal decomposition.....: not applicable

10 Stability and reactivity

10.0 General information:

Stable under normal conditions of use. In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas.

10.1 Conditions to avoid:

moisture . Heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

10.2 Materials to avoid:

Reacts violently with: acids , basic substances (e.g. alkalis, ammonia, amines) . Reacts with: alcohols , water , moisture , oxidizing agents , catalyst . Reaction causes the formation of: hydrogen .

10.3 Hazardous decomposition products:

Releases flammable Hydrogen Gas. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.



11 Toxicological information

11.0 General information:

According to present experience, the material is neither mutagenic, cancerogenic nor teratogenic. The toxicology results listed below are based on tests with a similar material.

11.1 Toxicological tests

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
oral	> 5000 mg/kg	rat	literature
dermal	> 2008 mg/kg	rat (Limit Test)	test report

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	not irritating	rabbit	test report
to eyes	mildly irritating	rabbit	test report

Sensitization:

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	Magnusson-Kligmann	guinea-pig	test report

Further information:

-

Reference points for mutagenic (carcinogenic) potential:

Test system	Effect	Source
Bacterial Reverse Mutation Test	not mutagenic	test report

11.2 Experience with man:

Human patch test: Product displays good compatibility with the skin.

12 Ecological information

12.1 Ecotoxicity

No expected damaging effects to water organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

12.2 Mobility

Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

12.3 Persistence and degradability

Biodegradation / further information:

Biologically not degradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

Further information:

Elimination by adsorption in activated sludge.

12.4 Bio-accumulation potential

Further information:

Bioaccumulation is not expected to occur.

12.5 Other harmful effects

-

12.6 Further ecological information

General information:

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.



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13 Disposal considerations

13.1 Material

Recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10.2. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers.

13.2 Uncleaned packaging

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. Uncleaned packaging should be treated with the same precautions as the material. Containers should be completely emptied before recycling as specified in government regulations.

14 Transport information

14.1 Land transport GGVSE/ADR and RID

Road ADR:

Valuation.....: Not regulated for transport

Railway RID:

Valuation.....: Not regulated for transport

14.2 Inland navigation GGVBinsch/ADNR

14.3 Transport by sea GGVSee/IMDG-Code

Valuation.....: Not regulated for transport

14.4 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

14.5 Transport/further information

Postal and courier service:

Australian postal despatch.....: Permitted

15 Regulatory information

15.1 Warning Label (EU)

R-Phrase	Description
R-	-
S-Phrase	Description
S-	-

15.2 National regulations:

SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.



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16 Other information

16.1 Material

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16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version.

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