

# smartstone

THE BENCHMARK IN STONE

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Product name** SMARTSTONE ADHESIVE (PART A)  
**Synonym(s)** ADHESIVE, SMARTSTONE • PART A, SMARTSTONE ADHESIVE

#### 1.2 Uses and uses advised against

**Use(s)** ADHESIVE • TWO COMPONENT ADHESIVE SYSTEM • TWO COMPONENT PACK

#### 1.3 Details of the supplier of the product

**Supplier name** SMARTSTONE AUSTRALIA PTY LIMITED  
**Address** 29 Henderson St, Turrella, NSW, 2205, AUSTRALIA  
**Telephone** 1300 888 607  
**Email** [info@smartstone.com.au](mailto:info@smartstone.com.au)  
**Website** [www.smartstone.com.au](http://www.smartstone.com.au)

#### 1.4 Emergency telephone number(s)

**Emergency** 1300 888 607

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS classification(s)** Skin Corrosion/Irritation: Category 2  
Skin Sensitisation: Category 1  
Specific Target Organ Systemic Toxicity (Single Exposure): Category 3

#### 2.2 Label elements

**Signal word** WARNING

**Pictogram(s)**



#### Hazard statement(s)

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

#### Prevention statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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### Response statement(s)

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment is advised - see first aid instructions.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before re-use.

### Storage statement(s)

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

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## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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### 3.1 Substances / Mixtures

| Ingredient              | CAS Number | EC Number | Content   |
|-------------------------|------------|-----------|-----------|
| METHYL METHACRYLATE     | 80-62-6    | 201-297-1 | 20 to 40% |
| POLYMETHYL METHACRYLATE | 9011-14-7  | 618-466-4 | 20 to 40% |
| ADDITIVE(S)             | -          | -         | Remainder |
| ALUMINIUM HYDROXIDE     | 21645-51-2 | 244-492-7 | 30%       |

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## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.

**First aid facilities** Eye wash facilities and safety shower are recommended.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

### 5.2 Special hazards arising from the substance or mixture

Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition.

### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

None allocated.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Eliminate all sources of ignition. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Take precautionary measures against electrostatic discharges.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems. Store as a Class C1 Combustible Liquid (AS1940). Store below 20°C.

### 7.3 Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

| Ingredient          | Reference | TWA |                   | STEL |                   |
|---------------------|-----------|-----|-------------------|------|-------------------|
|                     |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Methyl methacrylate | SWA (AUS) | 50  | 208               | 100  | 416               |

#### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

#### PPE

|                    |  |
|--------------------|--|
| <b>Eye / Face</b>  | Wear splash-proof goggles.   |
| <b>Hands</b>       | Wear butyl or PVA gloves.  |
| <b>Body</b>        | Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.   |
| <b>Respiratory</b> | Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear an Air-line respirator. |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                           |                                       |
|---------------------------|---------------------------------------|
| Appearance                | VISCOUS WHITE LIQUID                  |
| Odour                     | CHARACTERISTIC ODOUR                  |
| Flammability              | CLASS C1 COMBUSTIBLE                  |
| Flash point               | 106°C (cc)                            |
| Boiling point             | 101°C                                 |
| Melting point             | NOT AVAILABLE                         |
| Evaporation rate          | 3 (Butyl acetate = 1) (Approximately) |
| pH                        | NOT AVAILABLE                         |
| Vapour density            | 3.5 (Air = 1)                         |
| Specific gravity          | 0.99 to 1.03                          |
| Solubility (water)        | SLIGHTLY SOLUBLE                      |
| Vapour pressure           | 28 mm Hg @ 22°C                       |
| Upper explosion limit     | 12.5 %                                |
| Lower explosion limit     | 2.1 %                                 |
| Partition coefficient     | NOT AVAILABLE                         |
| Autoignition temperature  | NOT AVAILABLE                         |
| Decomposition temperature | NOT AVAILABLE                         |
| Viscosity                 | NOT AVAILABLE                         |
| Explosive properties      | NOT AVAILABLE                         |
| Oxidising properties      | NOT AVAILABLE                         |
| Odour threshold           | NOT AVAILABLE                         |

### 9.2 Other information

|             |                              |
|-------------|------------------------------|
| % Volatiles | 50 % to 70 % (Approximately) |
|-------------|------------------------------|

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

May polymerise with violent rupture/explosion.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid direct sunlight.

### 10.5 Incompatible materials

May polymerise in contact with oxidising agents (e.g. nitrates), acids (e.g. nitric acid), amines, UV light, alkalis (e.g. sodium hydroxide), or if heated. Polymerisation may generate heat with potential for fire-explosion.

### 10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met. Ingestion of large quantities may result in nausea, vomiting, abdominal pain and diarrhoea.

**Information available for the ingredient(s):**

| Ingredient          | Oral Toxicity (LD50) | Dermal Toxicity (LD50) | Inhalation Toxicity (LC50) |
|---------------------|----------------------|------------------------|----------------------------|
| METHYL METHACRYLATE | 3625 mg/kg (mouse)   | > 5000 mg/kg (rabbit)  | --                         |
| ALUMINIUM HYDROXIDE | > 2000 mg/kg (rat)   | --                     | > 2.3 mg/L/4hrs            |

**Skin** Irritating to the skin. Contact may result in drying and defatting of the skin, rash and dermatitis.

**Eye** Contact may result in irritation, lacrimation, pain and redness.

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|                                 |  |
|---------------------------------|--|
| <b>Sensitisation</b>            | May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.   |
| <b>Mutagenicity</b>             | Not classified as a mutagen.   |
| <b>Carcinogenicity</b>          | Not classified as a carcinogen.  |
| <b>Reproductive</b>             | Not classified as a reproductive toxin.  |
| <b>STOT - single exposure</b>   | Over exposure may result in irritation of the nose and throat, coughing, nausea and headache. High level exposure may result in dizziness, drowsiness, breathing difficulties and unconsciousness. |
| <b>STOT - repeated exposure</b> | Not classified as causing organ damage from repeated exposure.   |
| <b>Aspiration</b>               | Not classified as causing aspiration.  |

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

No information provided.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

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**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

|                                    | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|----------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | None allocated.      | None allocated.            | None allocated.             |
| <b>14.2 Proper Shipping Name</b>   | None allocated.      | None allocated.            | None allocated.             |
| <b>14.3 Transport hazard class</b> | None allocated.      | None allocated.            | None allocated.             |
| <b>14.4 Packing Group</b>          | None allocated.      | None allocated.            | None allocated.             |

**14.5 Environmental hazards**

No information provided.

**14.6 Special precautions for user**

**Hazchem code** None allocated.

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule** Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**PRODUCT NAME SMARTSTONE ADHESIVE (PART A)**

|                             |   |   |
|-----------------------------|---|---|
| <b>Classifications</b>      | Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.<br><br>The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]. |   |
| <b>Hazard codes</b>         | Xi  | Irritant  |
| <b>Risk phrases</b>         | R37/38<br>R43   | Irritating to respiratory system and skin.<br>May cause sensitisation by skin contact.              |
| <b>Safety phrases</b>       | S23<br>S24<br>S36/37  | Do not breathe vapour.<br>Avoid contact with skin.<br>Wear suitable protective clothing and gloves. |
| <b>Inventory listing(s)</b> | <b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b><br>All components are listed on AICS, or are exempt.   |   |

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## 16. OTHER INFORMATION

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**Additional information** This product is used in conjunction with SMARTSTONE ADHESIVE (PART B). Please refer to the appropriate SDS before use.

**WORKPLACE CONTROLS AND PRACTICES:** Unless a less toxic chemical can be substituted for a hazardous substance, **ENGINEERING CONTROLS** are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PRODUCT NAME SMARTSTONE ADHESIVE (PART A)**

|                      |                   |   |
|----------------------|-------------------|---|
| <b>Abbreviations</b> | ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
|                      | CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
|                      | CNS               | Central Nervous System  |
|                      | EC No.            | EC No - European Community Number   |
|                      | EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
|                      | GHS               | Globally Harmonized System  |
|                      | GTEPG             | Group Text Emergency Procedure Guide  |
|                      | IARC              | International Agency for Research on Cancer   |
|                      | LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
|                      | LD50              | Lethal Dose, 50% / Median Lethal Dose   |
|                      | mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
|                      | OEL               | Occupational Exposure Limit   |
|                      | pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
|                      | ppm               | Parts Per Million   |
|                      | STEL              | Short-Term Exposure Limit   |
|                      | STOT-RE           | Specific target organ toxicity (repeated exposure)  |
|                      | STOT-SE           | Specific target organ toxicity (single exposure)  |
|                      | SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
|                      | SWA               | Safe Work Australia   |
|                      | TLV               | Threshold Limit Value   |
|                      | TWA               | Time Weighted Average   |

**Report status** This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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**[ End of SDS ]**

# smartstone

THE BENCHMARK IN STONE

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Product name** SMARTSTONE ADHESIVE (PART B)  
**Synonym(s)** ADHESIVE, SMARTSTONE • PART B, SMARTSTONE ADHESIVE

#### 1.2 Uses and uses advised against

**Use(s)** ADHESIVE • TWO COMPONENT ADHESIVE SYSTEM • TWO COMPONENT PACK

#### 1.3 Details of the supplier of the product

**Supplier name** SMARTSTONE AUSTRALIA PTY LIMITED  
**Address** 29 Henderson St, Turrella, NSW, 2205, AUSTRALIA  
**Telephone** 1300 888 607  
**Email** [info@smartstone.com.au](mailto:info@smartstone.com.au)  
**Website** [www.smartstone.com.au](http://www.smartstone.com.au)

#### 1.4 Emergency telephone number(s)

**Emergency** 1300 888 607

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

#### 2.2 Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

#### 2.3 Other hazards

No information provided.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

| Ingredient                    | CAS Number | EC Number | Content   |
|-------------------------------|------------|-----------|-----------|
| ADDITIVE(S)                   | -          | -         | Remainder |
| SILICA, AMORPHOUS             | 7631-86-9  | 231-545-4 | <10%      |
| BENZOYL PEROXIDE              | 94-36-0    | 202-327-6 | <2%       |
| DIETHYLENE GLYCOL, DIBENZOATE | 120-55-8   | 204-407-6 | <94%      |

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.



**PRODUCT NAME SMARTSTONE ADHESIVE (PART B)**

**First aid facilities** Eye wash facilities and safety shower are recommended.

**4.2 Most important symptoms and effects, both acute and delayed**

See Section 11 for more detailed information on health effects and symptoms.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Dry agent, carbon dioxide or water fog. Prevent contamination of drains and waterways.

**5.2 Special hazards arising from the substance or mixture**

Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

None allocated.

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**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

**6.2 Environmental precautions**

Prevent product from entering drains and waterways.

**6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

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**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Take precautionary measures against electrostatic discharges.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C1 Combustible Liquid (AS1940). Store below 20°C.

**7.3 Specific end use(s)**

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

| Ingredient                     | Reference | TWA |                   | STEL |                   |
|--------------------------------|-----------|-----|-------------------|------|-------------------|
|                                |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Benzoyl peroxide               | SWA (AUS) | --  | 5                 | --   | --                |
| Fumed silica (respirable dust) | SWA (AUS) | --  | 2                 | --   | --                |

### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

### PPE

- Eye / Face** Wear splash-proof goggles.
- Hands** Wear butyl or PVA gloves.
- Body** Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.
- Respiratory** Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                           |                             |
|---------------------------|-----------------------------|
| Appearance                | VISCOUS YELLOW LIQUID       |
| Odour                     | SLIGHT ODOUR                |
| Flammability              | CLASS C1 COMBUSTIBLE        |
| Flash point               | 136°C (cc)                  |
| Boiling point             | 101°C                       |
| Melting point             | NOT AVAILABLE               |
| Evaporation rate          | NOT AVAILABLE               |
| pH                        | NOT AVAILABLE               |
| Vapour density            | 3 (Air = 1) (Approximately) |
| Specific gravity          | 1.02 to 1.06                |
| Solubility (water)        | SLIGHTLY SOLUBLE            |
| Vapour pressure           | 25 mm Hg @ 22°C             |
| Upper explosion limit     | NOT AVAILABLE               |
| Lower explosion limit     | 0.47 %                      |
| Partition coefficient     | NOT AVAILABLE               |
| Autoignition temperature  | NOT AVAILABLE               |
| Decomposition temperature | NOT AVAILABLE               |
| Viscosity                 | NOT AVAILABLE               |
| Explosive properties      | NOT AVAILABLE               |
| Oxidising properties      | NOT AVAILABLE               |
| Odour threshold           | NOT AVAILABLE               |

### 9.2 Other information

|             |                              |
|-------------|------------------------------|
| % Volatiles | 50 % to 70 % (Approximately) |
|-------------|------------------------------|

## 10. STABILITY AND REACTIVITY

**PRODUCT NAME SMARTSTONE ADHESIVE (PART B)**

**10.1 Reactivity**

Carefully review all information provided in sections 10.2 to 10.6.

**10.2 Chemical stability**

Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**

Polymerization is not expected to occur.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid direct sunlight.

**10.5 Incompatible materials**

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

**10.6 Hazardous decomposition products**

May evolve carbon oxides and hydrocarbons when heated to decomposition.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met. Ingestion of large quantities may result in nausea, vomiting, abdominal pain and diarrhoea.

**Information available for the ingredient(s):**

| Ingredient                    | Oral Toxicity (LD50) | Dermal Toxicity (LD50) | Inhalation Toxicity (LC50) |
|-------------------------------|----------------------|------------------------|----------------------------|
| SILICA, AMORPHOUS             | 3160 mg/kg (rat)     | --                     | --                         |
| BENZOYL PEROXIDE              | 5700 mg/kg (mouse)   | > 1000 mg/kg           | --                         |
| DIETHYLENE GLYCOL, DIBENZOATE | 2830 mg/kg (rat)     | 20 mL/kg (rabbit)      | --                         |

**Skin** Contact may result in irritation, redness, pain and rash.  
**Eye** Contact may result in irritation, lacrimation, pain and redness.  
**Sensitisation** Not classified as causing skin or respiratory sensitisation.  
**Mutagenicity** Not classified as a mutagen.  
**Carcinogenicity** Not classified as a carcinogen.  
**Reproductive** Not classified as a reproductive toxin.  
**STOT - single exposure** Over exposure to vapours may result in irritation of the nose and throat, with coughing. High level exposure may result in drowsiness, dizziness, nausea and headache.  
**STOT - repeated exposure** Repeated exposure to some glycols may result in kidney damage.  
**Aspiration** Not classified as causing aspiration.

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

No information provided.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**PRODUCT NAME SMARTSTONE ADHESIVE (PART B)**

**12.5 Other adverse effects**

ATMOSPHERE: Vapour phase glycols are expected to degrade fairly rapidly by reaction with hydroxyl radicals (eg half-life 32 hours for propylene glycol). Removal from air by rainfall is possible. WATER: Should degrade relatively rapidly via biodegradation. SOIL: If released to soil, relatively rapid biodegradation should also occur. Leaching to groundwater may occur.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

**Waste disposal** Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

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**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

|                                    | <b>LAND TRANSPORT (ADG)</b> | <b>SEA TRANSPORT (IMDG / IMO)</b> | <b>AIR TRANSPORT (IATA / ICAO)</b> |
|------------------------------------|-----------------------------|-----------------------------------|------------------------------------|
| <b>14.1 UN Number</b>              | None allocated.             | None allocated.                   | None allocated.                    |
| <b>14.2 Proper Shipping Name</b>   | None allocated.             | None allocated.                   | None allocated.                    |
| <b>14.3 Transport hazard class</b> | None allocated.             | None allocated.                   | None allocated.                    |
| <b>14.4 Packing Group</b>          | None allocated.             | None allocated.                   | None allocated.                    |

**14.5 Environmental hazards**

No information provided.

**14.6 Special precautions for user**

**Hazchem code** None allocated.

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

**Hazard codes** None allocated.

**Risk phrases** None allocated.

**Safety phrases** None allocated.

**Inventory listing(s)** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
All components are listed on AICS, or are exempt.

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**16. OTHER INFORMATION**

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**Additional information** This product is used in conjunction with SMARTSTONE ADHESIVE (PART A). Please refer to the appropriate SDS before use.

## PRODUCT NAME SMARTSTONE ADHESIVE (PART B)

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

## Abbreviations

|                   |   |
|-------------------|---|
| ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
| CNS               | Central Nervous System  |
| EC No.            | EC No - European Community Number   |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
| GHS               | Globally Harmonized System  |
| GTEPG             | Group Text Emergency Procedure Guide  |
| IARC              | International Agency for Research on Cancer   |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
| LD50              | Lethal Dose, 50% / Median Lethal Dose   |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
| OEL               | Occupational Exposure Limit   |
| pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million   |
| STEL              | Short-Term Exposure Limit   |
| STOT-RE           | Specific target organ toxicity (repeated exposure)  |
| STOT-SE           | Specific target organ toxicity (single exposure)  |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
| SWA               | Safe Work Australia   |
| TLV               | Threshold Limit Value   |
| TWA               | Time Weighted Average   |

## Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

**PRODUCT NAME SMARTSTONE ADHESIVE (PART B)**

**Prepared by**

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**[ End of SDS ]**