

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name SMARTSTONE
Synonyms SMART STONE

1.2 Uses and uses advised against

Uses QUARTZ SURFACING PRODUCTS

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
Website www.smartstone.com.au

1.4 Emergency telephone numbers

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

The solid product as supplied is classified as non-hazardous under normal conditions and does not present an inhalation, ingestion, skin, or eye hazard. However, dust created when the product is cut, grinded and machined may contain crystalline silica some of which may be respirable (particles small enough to go into deep parts of the lung when breathed in).

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	>90%
1,3-ISOBENZOFURANDIONE, POLYMER WITH 2,5-FURANDIONE AND 2,2'-OXYBIS[ETHANOL]	26123-45-5	-	Remainder

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye (Dust exposure) Flush gently with running water, irrigating under eyelids. Seek medical attention if irritation develops.
Inhalation (Dust exposure) If inhaled remove from contaminated area. Apply artificial respiration if not breathing.
Skin (Dust exposure) Gently flush affected areas with water. Seek medical attention if irritation develops.
Ingestion Due to product form and application, ingestion is considered unlikely.
First aid facilities None allocated.

4.2 Most important symptoms and effects, both acute and delayed

No adverse health effects expected if the product is handled in accordance with the SDS and the product label.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

5.3 Advice for firefighters

No fire or explosion hazard exists.

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.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

If spilt, collect and reuse where possible.

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.

7.2 Conditions for safe storage, including any incompatibilities

No information provided.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Quartz (respirable dust)	SWA (AUS)	--	0.1	--	--

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. Wet where possible. Maintain dust levels below the recommended exposure standard.

PPE

- Eye / Face** If cutting or sanding with potential for dust generation, wear dust-proof goggles.
- Hands** Wear leather or cotton gloves.
- Body** Not required under normal conditions of use.
- Respiratory** If cutting or sanding with potential for dust generation, wear a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	COLOURED POLISHED/HONED/TEXTURED SLABS
Odour	SLIGHT ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Specific gravity	NOT AVAILABLE
Solubility (water)	INSOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
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

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

Polymerization is not expected to occur.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Incompatible with strong acids (e.g. hydrofluoric acid).

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity This product is expected to be of low toxicity. Ingestion is considered unlikely due to product form.

PRODUCT NAME SMARTSTONE

Skin	Mechanical irritant. Prolonged or repeated contact may result in mild irritation due to mechanical action.
Eye	Mechanical irritant. Due to product form and nature of use, the potential for exposure is reduced. Product may only present a hazard if material is cut, drilled or sanded with dust generation, which may result in mechanical irritation.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels are not anticipated due to product form. This product may only present a hazard if rocks are cut or drilled with dust generation. Crystalline quartz is classified as carcinogenic to humans (IARC Group 1).
Reproductive	Not classified as a reproductive toxin.
STOT - single exposure	Dust can be generated during cutting of the product. Dusts are mechanical irritants that may cause throat irritation.
STOT - repeated exposure	Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels are not anticipated due to the product form. This product may only present a hazard if rocks are cut or drilled with dust generation. Chronic exposure to dust may cause lung fibrosis (silicosis).
Aspiration	Not applicable for solids.

12. ECOLOGICAL INFORMATION**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

The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Waste disposal** Reuse where possible. Dispose of in accordance with local regulations.**Legislation** Dispose of in accordance with relevant local legislation.**14. TRANSPORT INFORMATION****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)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user**Hazchem code** None allocated.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Additional information 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 ³	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

PRODUCT NAME SMARTSTONE

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.

Prepared by

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

[End of SDS]

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
Website 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.

PRODUCT NAME SMARTSTONE ADHESIVE (PART A)

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.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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%

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. 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.

5. FIRE FIGHTING MEASURES

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 ³	ppm	mg/m ³
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

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 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)
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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.

PRODUCT NAME SMARTSTONE ADHESIVE (PART A)

Sensitisation	May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Not classified as a carcinogen.
Reproductive	Not classified as a reproductive toxin.
STOT - single exposure	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.
STOT - repeated exposure	Not classified as causing organ damage from repeated exposure.
Aspiration	Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

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.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

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)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code None allocated.

15. REGULATORY INFORMATION

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)

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	Xi	Irritant
Risk phrases	R37/38 R43	Irritating to respiratory system and skin. May cause sensitisation by skin contact.
Safety phrases	S23 S24 S36/37	Do not breathe vapour. Avoid contact with skin. Wear suitable protective clothing and gloves.
Inventory listing(s)	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt.	

16. OTHER INFORMATION

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)

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 ³	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.

Prepared by

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

[End of SDS]

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
Website 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.

5. FIRE FIGHTING MEASURES

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.

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

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.

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 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 ³	ppm	mg/m ³
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.

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)
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.

12. ECOLOGICAL INFORMATION

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.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

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)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code None allocated.

15. REGULATORY INFORMATION

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.

16. OTHER INFORMATION

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 ³	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

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

[End of SDS]

معدات الوقاية الشخصية

تعد القطع أو الصفيحة مع وجود اضمالتيلد للبخار، اتدن ظارات ضد ادللبخار.
 اتدقفاز اتقطة أو لحيه.
 غير مطوبفي ظل ظروف استخدام اعبيه.
 تعد القطع أو الصفيحة مع وجود اضمالتيلد للبخار، اتد جهانتفس ملطئة (P1).

للعين / للوجه
 لليدان
 للجسم
 الجهان التفسبي



9. لخواص فيزيائية و كيميائية

9.1 معلومات حول الخصائص الفيزيائية والكيميائية	ي
لمظهر	الواضح صقبة / شحونة/مصبية
الرائحة	رائحة ضعيفة
قابلية الاشتعال	غير قابل للاشتعال
السمية	غير ذات صلة
نقطة الوميان	غير نهاحة
نقطة انصهار	غير نهاحة
معدل التبخر	غير نهاحة
الحموضة	غير نهاحة
التفكك للبخار	غير نهاحة
الوزن النوعي	غير نهاحة
قابلية الذوبان (الماء)	غير قابل للذوبان
ضغط البخار	غير نهاحة
حد انفجار ا لى	غير ذي صلة
حد انفجار ا لى	غير ذي صلة
معامل التحجز	غير نهاحة
درجة حرارة اشتعال لالمني	غير نهاحة
درجة حرارة التحلل للزوج	غير نهاحة
خواص التفجار	غير نهاحة
خواص السدة	غير نهاحة
حدود الارتفاع	غير نهاحة

10. الثبات والتفاسخية

10.1 التفاسخية

راجع عرض جميع المعلومات المقدم في اقسام 10.2 الى 10.6

10.2 الثباتات الكيميائية

لام ادقتبت في ظل ظروف التخزين لموصى به.

10.3 إمكانية حدوث التفاسخات الخطيرة

ليس من المتظر حدوث للدمر.

10.4 الظروف الواجب تجنبها:

تجنب الحرارة والتبرر والامبلفتسوح وغيرها من صادر الاشتعال.

10.5 المواد غير المتفاسخة

غير تتفاسخ مع ا اضل قوية (مثل حمض ليديروكلوريك).

10.6 نويج التحلل الخطيرة

قتتفج لامادة غاز اتسامه اذتتس من الدرجة للتحلل.

11. معلومات لسمية

11.1 معلومات حول اثار السامة

يتفاسخ انيكون هذا التفاسخ فيضض للسمية يعبر للدمر اماً غير وارد نويج تشلل للھتاج.

للسمية لاحادة

تاي خشر رقبيات

الصفحة 14

مُبيج ويكروبيكي. ويؤدي لتنامس اللطويل أو المتكرر لليتي جيبسي طيبيجة اشر اليكفيكي.

مُبيج ويكروبيكي. ينقص الضمال لتعرض ييج لتشليل اليتج وطبيجة ا استخدام. يمكن أن يتحلل اليتج خطرًا! عند قطع للمادة أو تقيها أو صرفتها مع تيل دلغار، مما قد يؤدي لليتي ج ويكفيكي.

غير مُرئفبا عباره من مبيبات لجرلي ذل لجد أو لجهاز لتفسي. غير

مُرنفبا عباره من مبيبات لظرة اليجيية.

من غير التيقع حدوث نذار صجي ضارة، ولتي يتبسط ع ادقبتك تعرض لمدة طوله مل مبيبات مبنطه من يغار الليليكال لتبلورة، ييج لتشليل اليتج. يمكن أن يتحلل هذا اليتج خطرًا! إذا قطعت الصخور أو ثققت معتبلد يغار. يُرئفب للفتواتز لتبلور غري لها من مبيبات للسرطانل تيجين (لوكالة لدئي هبجوت للسرطان) (IARC) لمجموعة ا طي).

غير مُرئفبا عباره مادمسام قمل جهاز لتقللي

يمكن تلبد للغار ييج ققطع اليتج يتحلل ذرات للغار مُبيجا ويكروبيكي ا قديؤدي لليتي ج للخلق.

من غير التيقع حدوث نذار صجي ضارة، ولتي يتبسط ع ادقبتك تعرض لمدة طوله مل مبيبات مبنطه من يغار الليليكال لتبلورة، ييج لتشليل اليتج. يمكن أن يتحلل هذا اليتج خطرًا! إذا قطعت الصخور أو ثققت معتبلد يغار. قتييب لتعرض لمُز من للغار تقيف لرة (مرض للسحار).

12. معلومات تبيوية

12.1 لسمية

لمتقدم طية مغمومات.

12.2 التبات قبالي التحلل

لمتقدم طية مغمومات.

12.3 ائفبة التركم ا عطي

لمتقدم طية مغمومات.

12.4 قبالي ا ريق الفسي التبة

لمتقدم طية مغمومات.

12.5 اثار الضارة ا غري

يتيقع من للمغون للويبي الللمغينات للويبي الة هذا اليتج أن تسبب أي نذار ضارة للفتات أو للبولات.

13. اعبارات لتخص من لمادة

13.1 طرق مللجه الفطال

أعد ا استخدام يثما الملمن بتلخص من لمادة فوق اللولطح للملجي بتلخص من لمادة فوق الفشريات للملجي ذات الصلة.

تشريح مللجه
رالفطيات

14. مغمومات لقل

غير مُرئفبا عباره من للردع لخطرة طلق المجلير لمدينة ا سترلي للردع لخطرة أو للضلع لدولة لبحرية لخطرة أو اتحاد اللولول لقل اللجوي

للقل للبري (لمدينة ا سترلي للردع لخطرة)	للقل للبري بالضلع لدولة لبحرية للخطرة / المنظمة للبحرية لدولة)	للقل للبري (للقل للبري) / منظمة للبحرية لدولة	للقل للبري (للقل للبري) / منظمة للبحرية لدولة
جد رقم مخصص.	جد رقم مخصص.	جد رقم مخصص.	جد رقم مخصص.
جد رقم مخصص.	جد رقم مخصص.	جد رقم مخصص.	جد رقم مخصص.
جفئة مخصصة.	جفئة مخصصة.	جفئة مخصصة.	جفئة مخصصة.
جد مجموعة مخصصة.	جد مجموعة مخصصة.	جد مجموعة مخصصة.	جد مجموعة مخصصة.

14.5 لمخاطر البيئية

لمتقدم أي مغمومات.

14.6 اخطاط مخص للردع

رمن نظام لمواد الليليكال لخطرة ليجي مخصص أي رمز.

أعدت شركة تقنيات إدارة المخاطر (RMT) مذئقو ريبالوئية عن المبرنع أو المبتورد أو الموردل هذا اليتج و موبتمبله شرقييات للم لم.

يبينذ للتقير الى مقوم امتنتلوقب اليتج قدمه المبرنع أو المبتورد أو الموردل الى شركة RMT أوتم لوصول ليهه من مبرادر طرفمالت ويتقد له لتمبل الوضخ الحلي للمجب قيم ايتلوقب اعطاطات للم لم و مباله اليتج في وقت اصدار. ويتجني لوصول لفي اي لخصاحات لبرفلي قنتلوقب أي جلب من جولب هذا اليتج من المبرنع أو المبتورد أو الموردل بملمرة.

بالرغم من حرص شركة RMT على تضمين مقومات حقيقة ومحتشفي شرقييات للم لم هذه، إلا أنها تقدم أي ضماني لوقبقة هذه اللشرة أو الضماله. وتقبل شركة RMT، الى أقصى حد ممكن، أي مصلوبي قتلوهية عن أي خسارة أو لمربله أو تلف بهم في كك لخرطار للبلعه (التي قمت حدث أوتجلمهه أي شخص يتيج اعتماده على المقومات التي يتضمنها شرقييات للم لم هذه.

Risk Management Technologies 5

Ventnor Ave, West Perth

Western Australia 6005

ال تلف: +61 8 9322 1711

الفاكس: +61 8 9322 1794

البريد الإلكتروني: info@rmt.com.au

الموقع الإلكتروني: www.rmt.com.au

اعداد

إنهية شرقييات للم لم]

1. ΣΤΟΙΧΕΙΑ ΤΟΥ ΥΛΙΚΟΥ ΚΑΙ ΤΟΥ ΠΡΟΜΗΘΕΥΤΗ

1.1 Στοιχεία προϊόντος

Όνομα προϊόντος SMARTSTONE

Συνώνυμα SMART STONE

1.2 Χρήσεις και αντενδεικνυόμενες χρήσεις

Χρήσεις ΠΡΟΪΟΝΤΑ ΔΙΑΜΟΡΦΩΣΗΣ ΕΠΙΦΑΝΕΙΑΣ ΜΕ ΧΑΛΑΖΙΑ

1.3 Στοιχεία του προμηθευτή του προϊόντος

Όνομα προμηθευτή SMARTSTONE AUSTRALIA PTY LIMITED
 Διεύθυνση 29 Henderson St, Turrella, NSW, 2205, AUSTRALIA
 Τηλέφωνο 1300 888 607
 Email info@smartstone.com.au
 Ιστοσελίδα www.smartstone.com.au

1.4 Αριθμός τηλεφώνου επείγουσας ανάγκης

Επείγουσα ανάγκη 1300 888 607

2. ΠΡΟΣΔΙΟΡΙΣΜΟΣ ΕΠΙΚΙΝΔΥΝΟΤΗΤΑΣ

2.1 Ταξινόμηση της ουσίας ή του μείγματος

ΔΕΝ ΤΑΞΙΝΟΜΕΙΤΑΙ ΩΣ ΕΠΙΚΙΝΔΥΝΟ ΣΥΜΦΩΝΑ ΜΕ ΤΑ ΚΡΙΤΗΡΙΑ ΤΟΥ SAFEWORKAUSTRALIA

2.2 Στοιχεία επισήμανσης

Δεν υπάρχει προειδοποιητική λέξη, εικονογράμματα, δηλώσεις κινδύνου ή δηλώσεις προφύλαξης.

2.3 Άλλοι κίνδυνοι

Το στερεό προϊόν, όπως παρέχεται, ταξινομείται ως μη επικίνδυνο υπό φυσιολογικές συνθήκες και δεν αποτελεί κίνδυνο εισπνοής, κατάποσης, επαφής με τα δέρμα ή με τα μάτια. Ωστόσο, η σκόνη που παράγεται κατά την κοπή, τη λείανση και τη μηχανική κατεργασία ενδέχεται να περιέχει κρυσταλλικό πυρίτιο, μέρος του οποίου ενδέχεται να είναι αναπνεύσιμο (σωματίδια αρκετά μικρού μεγέθους ώστε να εισχωρούν σε βαθιά μέρη του πνεύμονα κατά την εισπνοή).

3. ΣΥΝΘΕΣΗ / ΠΛΗΡΟΦΟΡΙΕΣ ΓΙΑ ΤΑ ΣΥΣΤΑΤΙΚΑ

3.1 Ουσίες / Μείγματα

Συστατικό	Αριθμός CAS	Αριθμός EC	Συγκέντρωση
ΧΑΛΑΖΙΑΣ (ΚΡΥΣΤΑΛΛΙΚΟ ΠΥΡΙΤΙΟ)	14808-60-7	238-878-4	>90%
1,3-ΙΣΟΒΕΝΖΟΦΟΥΡΑΝΟΔΙΟΝΗ, ΠΟΛΥΜΕΡΕΣ ΜΕ 2,5-ΦΟΥΡΑΝΟΔΙΟΝΗ ΚΑΙ 2,2'-ΟΞΥΔΙΣ[ΑΙΘΑΝΟΛΗ]	26123-45-5	-	Υπολείμματα

4. ΜΕΤΡΑ ΠΡΩΤΩΝ ΒΟΗΘΕΙΩΝ

4.1 Περιγραφή των μέτρων πρώτων βοηθειών

Μάτια (Έκθεση στη σκόνη) Εκπλύνετε απαλά με τρεχούμενο νερό και κάτω από τα βλέφαρα. Αν εκδηλωθεί ερεθισμός, ζητήστε αμέσως ιατρική φροντίδα.
Εισπνοή (Έκθεση στη σκόνη) Σε περίπτωση εισπνοής, απομακρυνθείτε από τη μολυσμένη περιοχή. Σε περίπτωση μη αναπνοής, εκτελέστε τεχνητή αναπνοή.
Δέρμα (Έκθεση στη σκόνη) Εκπλύνετε προσεκτικά τις περιοχές που επηρεάστηκαν με νερό. Αν εκδηλωθεί ερεθισμός, ζητήστε αμέσως ιατρική φροντίδα.
Κατάποση Λόγω της μορφής και της εφαρμογής του προϊόντος, η κατάποση θεωρείται απίθανη.

Εγκαταστάσεις Α' βοηθειών Δεν έχουν οριστεί.

4.2 Σημαντικότερα συμπτώματα και επιδράσεις, άμεσες ή μεταγενέστερες

Δεν αναμένονται δυσμενείς επιπτώσεις για την υγεία, αν ο χειρισμός του προϊόντος γίνει σύμφωνα με το ΔΔΑ και την ετικέτα του προϊόντος.

4.3 Ένδειξη οιασδήποτε απαιτούμενης άμεσης ιατρικής φροντίδας και ειδικής θεραπείας

Αντιμετωπίστε ανάλογα με τα συμπτώματα.

5. ΜΕΤΡΑ ΓΙΑ ΤΗΝ ΚΑΤΑΠΟΛΕΜΗΣΗ ΤΗΣ ΠΥΡΚΑΓΙΑΣ

5.1 Πυροσβεστικά μέσα

Χρησιμοποιήστε πυροσβεστικά μέσα κατάλληλα για την περιβάλλουσα πυρκαγιά.

5.2 Ειδικό κίνδυνος που προκύπτουν από την ουσία ή το μείγμα

Μη εύφλεκτο. Ενδέχεται να δημιουργηθούν τοξικά αέρια σε περίπτωση έντονης θέρμανσης.

5.3 Συστάσεις για τους πυροσβέστες

Δεν υπάρχει κίνδυνος πυρκαγιάς ή έκρηξης.

5.4 Κωδικός επικίνδυνων ουσιών (Hazchem)

Δεν έχει ανατεθεί.

6. ΜΕΤΡΑ ΓΙΑ ΤΗΝ ΑΝΤΙΜΕΤΩΠΙΣΗ ΤΥΧΑΙΑΣ ΕΚΛΥΣΗΣ

6.1 Προσωπικές προφυλάξεις, προστατευτικός εξοπλισμός και διαδικασίες έκτακτης ανάγκης

Να φοράτε Εξοπλισμό Ατομικής Προστασίας (ΕΑΠ), όπως περιγράφεται αναλυτικά στην ενότητα 8 του ΔΔΑ.

6.2 Περιβαλλοντικές προφυλάξεις

Μην επιτρέπτε την είσοδο του προϊόντος σε αγωγούς αποστράγγισης και αγωγούς υδάτων.

6.3 Μέθοδοι καθαρισμού

Σε περίπτωση διαρροής, συλλέξτε και επαναχρησιμοποιήστε αν είναι δυνατόν.

6.4 Παραπομπή σε άλλες ενότητες

Ανατρέξτε στις Ενότητες 8 και 13 για ελέγχους της έκθεσης και απόρριψη.

7. ΧΕΙΡΙΣΜΟΣ ΚΑΙ ΑΠΟΘΗΚΕΥΣΗ

7.1 Προφυλάξεις για ασφαλή χειρισμό

Πριν από την χρήση, διαβάστε προσεκτικά την ετικέτα του προϊόντος. Συνιστάται η χρήση ασφαλών πρακτικών εργασίας, για την αποφυγή επαφής με τα μάτια και το δέρμα, και εισπνοής. Να εφαρμόζετε καλή προσωπική υγιεινή, συμπεριλαμβανομένου του πλυσίματος των χεριών πριν από το φαγητό. Να απαγορεύετε την κατανάλωση φαγητού και ποτού, καθώς και το κάπνισμα σε μολυσμένες περιοχές.

7.2 Συνθήκες ασφαλούς φύλαξης, συμπεριλαμβανομένων τυχόν ασυμβίβαστων καταστάσεων

Δεν παρέχονται πληροφορίες.

7.3 Ειδικές τελικές χρήσεις

Δεν παρέχονται πληροφορίες.

8. ΕΛΕΓΧΟΙ ΕΚΘΕΣΗΣ / ΑΤΟΜΙΚΗ ΠΡΟΣΤΑΣΙΑ

8.1 Παράμετροι ελέγχου

Πρότυπα ελέγχου

Συστατικό	Αναφορά	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Χαλαζίας (αναπνεύσιμη σκόνη)	SWA (AUS)	--	0,1	--	--

Βιολογικά όρια

Δεν έχουν εισαχθεί τιμές βιολογικών ορίων για το συγκεκριμένο προϊόν.

8.2 Έλεγχοι έκθεσης

Μηχανικοί έλεγχοι

Να αποφεύγετε την εισπνοή. Να χρησιμοποιείτε σε περιοχές με επαρκή εξαερισμό. Όπου υπάρχει κίνδυνος εισπνοής, συνιστάται μηχανικός εξαερισμός. Να καταβρέχετε όπου είναι δυνατόν. Να διατηρείτε τα επίπεδα σκόνης κάτω από το προτεινόμενο πρότυπο έκθεσης.

ΑΕΠ

Μάτια / Πρόσωπο	Κατά την κοπή ή τη λείανση με πιθανή παραγωγή σκόνης, να φοράτε γυαλιά ασφαλείας με προστασία από τη σκόνη.
Χέρια	Να φοράτε δερμάτινα ή βαμβακερά γάντια.
Σώμα	Δεν απαιτείται σε φυσιολογικές συνθήκες χρήσης.
Αναπνευστικό (σωματιδίων).	Κατά την κοπή ή τη λείανση με πιθανή παραγωγή σκόνης, να φοράτε μάσκα προστασίας P1



9. ΦΥΣΙΚΕΣ ΚΑΙ ΧΗΜΙΚΕΣ ΙΔΙΟΤΗΤΕΣ

9.1 Πληροφορίες για τις βασικές φυσικές και χημικές ιδιότητες

Όψη	ΕΓΧΡΩΜΕΣ ΓΥΑΛΙΣΜΕΝΕΣ/ΛΕΙΕΣ/ΑΝΑΓΛΥΦΕΣ ΠΛΑΚΕΣ
Οσμή	ΕΛΑΦΡΙΑ ΟΣΜΗ
Ευφλεκτότητα	ΜΗ ΕΥΦΛΕΚΤΟ
Σημείο ανάφλεξης	ΜΗ ΣΧΕΤΙΚΟ
Σημείο ζέσης	ΜΗ ΔΙΑΘΕΣΙΜΟ
Σημείο τήξης	ΜΗ ΔΙΑΘΕΣΙΜΟ
Ταχύτητα εξάτμισης	ΜΗ ΔΙΑΘΕΣΙΜΟ
pH	ΜΗ ΔΙΑΘΕΣΙΜΟ
Πυκνότητα ατμών	ΜΗ ΔΙΑΘΕΣΙΜΟ
Σχετική πυκνότητα	ΜΗ ΔΙΑΘΕΣΙΜΟ
Διαλυτότητα (νερό)	ΜΗ ΔΙΑΛΥΤΟ
Πίεση ατμών	ΜΗ ΔΙΑΘΕΣΙΜΟ
Αν. όριο εκρηκτικότητας	ΜΗ ΣΧΕΤΙΚΟ
Κατ. όριο εκρηκτικότητας	ΜΗ ΣΧΕΤΙΚΟ
Συντελεστής κατανομής	ΜΗ ΔΙΑΘΕΣΙΜΟ
Θερμοκρ. αυτοανάφλεξης	ΜΗ ΔΙΑΘΕΣΙΜΟ
Θερμοκρασία αποσύνθεσης	ΜΗ ΔΙΑΘΕΣΙΜΟ
Ιξώδες	ΜΗ ΔΙΑΘΕΣΙΜΟ
Εκρηκτικές ιδιότητες	ΜΗ ΔΙΑΘΕΣΙΜΟ
Οξειδωτικές ιδιότητες	ΜΗ ΔΙΑΘΕΣΙΜΟ
Όριο οσμής	ΜΗ ΔΙΑΘΕΣΙΜΟ

10. ΣΤΑΘΕΡΟΤΗΤΑ ΚΑΙ ΔΡΑΣΤΙΚΟΤΗΤΑ

10.1 Αντιδραστικότητα

Ανατρέξτε προσεκτικά σε όλες τις πληροφορίες που παρέχονται στις ενότητες 10.2 έως 10.6.

10.2 Χημική σταθερότητα

Σταθερό υπό τις συνιστώμενες συνθήκες αποθήκευσης.

10.3 Πιθανότητα επικίνδυνων αντιδράσεων

Δεν αναμένεται να προκύψει πολυμερισμός.

10.4 Συνθήκες προς αποφυγή

Αποφεύγετε τη θερμότητα, τις σπίθες, τις γυμνές φλόγες και άλλες πηγές ανάφλεξης.

10.5 Μη συμβατά υλικά

Μη συμβατό με ισχυρά οξέα (π.χ. υδροφθορικό οξύ).

10.6 Επικίνδυνα προϊόντα διάσπασης

Ενδέχεται να εκλυθούν τοξικά αέρια, εάν θερμανθεί σε σημείο διάσπασης.

11. ΤΟΞΙΚΟΛΟΓΙΚΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

11.1 Πληροφορίες για τις τοξικολογικές επιπτώσεις

Οξεία τοξικότητα Το παρόν προϊόν αναμένεται να είναι χαμηλής τοξικότητας. Λόγω της μορφής του προϊόντος, η κατάποση δεν θεωρείται πιθανή.

ΟΝΟΜΑ ΠΡΟΪΟΝΤΟΣ SMARTSTONE

Δέρμα	Μηχανικός ερεθισμός. Παρατεταμένη ή επαναλαμβανόμενη επαφή ενδέχεται να προκαλέσει ήπιο ερεθισμό, λόγω μηχανικής δράσης.
Μάτια	Μηχανικός ερεθισμός. Λόγω της μορφής του προϊόντος και της φύσης της χρήσης, η πιθανότητα έκθεσης είναι μειωμένη. Το παρόν προϊόν ενδέχεται να δημιουργήσει κίνδυνο μόνο αν γίνει κοπή, διάτρηση ή λείανση του υλικού με παραγωγή σκόνης, η οποία ενδέχεται να προκαλέσει μηχανικό ερεθισμό.
Ευαισθητοποίηση Μεταλλαξιγένεση Καρκινογένεση	Δεν ταξινομείται ως υλικό που προκαλεί ευαισθητοποίηση του δέρματος ή του αναπνευστικού. Δεν ταξινομείται ως μεταλλαξιγόνο. Δυσμενείς επιπτώσεις στην υγεία, οι οποίες συνήθως σχετίζονται με μακροχρόνια έκθεση σε υψηλά επίπεδα σκόνης κρυσταλλικού πυριτίου, δεν αναμένονται λόγω της μορφής του προϊόντος. Το παρόν προϊόν ενδέχεται να δημιουργήσει κίνδυνο μόνο αν γίνει κοπή ή διάτρηση λίθων με παραγωγή σκόνης. Το κρυσταλλικό πυρίτιο ταξινομείται ως καρκινογόνο για τους ανθρώπους (IARC Group 1).
Τοξικότητα για την αναπαραγωγή STOT - εφάπαξ έκθεση	Δεν ταξινομείται ως αναπαραγωγική τοξίνη. Μπορεί να παραχθεί σκόνη κατά την κοπή του προϊόντος. Η σκόνη αποτελεί μηχανικό ερεθιστικό που μπορεί να προκαλέσει ερεθισμό του λαιμού.
STOT - επανειλημμένη έκθεση	Δυσμενείς επιπτώσεις στην υγεία, οι οποίες συνήθως σχετίζονται με μακροχρόνια έκθεση σε υψηλά επίπεδα σκόνης κρυσταλλικού πυριτίου, δεν αναμένονται λόγω της μορφής του προϊόντος. Το παρόν προϊόν ενδέχεται να δημιουργήσει κίνδυνο μόνο αν γίνει κοπή ή διάτρηση λίθων με παραγωγή σκόνης. Χρόνια έκθεση στη σκόνη ενδέχεται να προκαλέσει πνευμονική ίνωση (πυριτίαση).
Αναρρόφηση	Δεν ισχύει για στερεά.

12. ΟΙΚΟΛΟΓΙΚΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

12.1 Τοξικότητα

Δεν παρέχονται πληροφορίες.

12.2 Ανθεκτικότητα και ικανότητα αποδόμησης

Δεν παρέχονται πληροφορίες.

12.3 Δυναμικό βιοσυσσώρευσης

Δεν παρέχονται πληροφορίες.

12.4 Κινητικότητα στο έδαφος

Δεν παρέχονται πληροφορίες.

12.5 Άλλες δυσμενείς επιπτώσεις

Τα κύρια συστατικά του παρόντος προϊόντος δεν αναμένεται να προκαλέσουν δυσμενείς επιπτώσεις σε φυτά και ζώα.

13. ΣΤΟΙΧΕΙΑ ΣΧΕΤΙΚΑ ΜΕ ΤΗ ΔΙΑΘΕΣΗ

13.1 Μέθοδοι επεξεργασίας αποβλήτων

Νομοθεσία διάθεσης αποβλήτων Επαναχρησιμοποιήστε όταν είναι δυνατόν. Απορρίψτε σύμφωνα με τους τοπικούς κανονισμούς. Απορρίψτε σύμφωνα με τη σχετική τοπική νομοθεσία.

14. ΠΛΗΡΟΦΟΡΙΕΣ ΣΧΕΤΙΚΑ ΜΕ ΤΗ ΜΕΤΑΦΟΡΑ

ΔΕΝ ΕΧΕΙ ΤΑΞΙΝΟΜΗΘΕΙ ΩΣ ΕΠΙΚΙΝΔΥΝΟ ΑΓΑΘΟ ΒΑΣΕΙ ΤΩΝ ΚΡΙΤΗΡΙΩΝ ΤΟΥ ΚΩΔΙΚΑ ADG, IMDG Ή IATA

	ΧΕΡΣΑΙΑ ΜΕΤΑΦΟΡΑ (ADG)	ΘΑΛΑΣΣΙΑ ΜΕΤΑΦΟΡΑ (IMDG / IMO)	ΑΕΡΟΠΟΡΙΚΗ ΜΕΤΑΦΟΡΑ (IATA / ICAO)
14.1 Αριθμός ΟΗΕ	Δεν έχει οριστεί.	Δεν έχει οριστεί.	Δεν έχει οριστεί.
14.2 Οικεία ονομασία αποστολής	Δεν έχει οριστεί.	Δεν έχει οριστεί.	Δεν έχει οριστεί.
14.3 Τάξη κινδύνου κατά τη μεταφορά	Δεν έχει οριστεί.	Δεν έχει οριστεί.	Δεν έχει οριστεί.
14.4 Ομάδα συσκευασίας	Δεν έχει οριστεί.	Δεν έχει οριστεί.	Δεν έχει οριστεί.

14.5 Κίνδυνοι για το περιβάλλον

Δεν παρέχονται πληροφορίες.

14.6 Ειδικές προφυλάξεις για τον χρήστη

Κωδικός επικίνδυνων ουσιών (Hazchem) Δεν έχει οριστεί.

15. ΠΛΗΡΟΦΟΡΙΕΣ ΣΧΕΤΙΚΑ ΜΕ ΤΙΣ ΚΑΝΟΝΙΣΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ

15.1 Κανονισμοί/νομοθεσία σχετικά με την ασφάλεια, την υγεία και το περιβάλλον για την ουσία ή το μείγμα

Ταξινόμηση δηλητηρίου	Δεν έχει οριστεί αριθμός ταξινόμησης δηλητηρίου για το παρόν προϊόν με βάση τα κριτήρια του Προτύπου για την Ενιαία Ταξινόμηση Φαρμάκων και Δηλητηρίων (SUSMP).
Ταξινομήσεις	Τα κριτήρια της SafeworkAustralia βασίζονται στο Παγκόσμια Εναρμονισμένο Σύστημα (GHS) Ταξινόμησης και Επισήμανσης Χημικών.
Κωδικοί κινδύνων	Οι ταξινομήσεις και οι φράσεις που παρατίθενται πιο κάτω βασίζονται στα Εγκεκριμένα Κριτήρια για την Ταξινόμηση Επικίνδυνων Ουσιών [NOHSC: 1008(2004)].
Φράσεις κινδύνου	Δεν έχει οριστεί.
Φράσεις ασφαλείας	Δεν έχει οριστεί.
Καταχωρίσεις σε ευρετήρια	Δεν έχει οριστεί.

ΑΥΣΤΡΑΛΙΑ: AICS (Ευρετήριο Χημικών Ουσιών της Αυστραλίας)
Όλα τα συστατικά αναγράφονται στο AICS ή εξαιρούνται.

16. ΆΛΛΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

Πρόσθετες πληροφορίες ΚΑΤΕΥΘΥΝΤΗΡΙΕΣ ΟΔΗΓΙΕΣ ΓΙΑ ΤΟΝ ΕΞΟΠΛΙΣΜΟ ΑΤΟΜΙΚΗΣ ΠΡΟΣΤΑΣΙΑΣ:
Η σύσταση για προστατευτικό εξοπλισμό που περιλαμβάνεται στην παρούσα έκθεση, παρέχεται μόνο ως καθοδήγηση. Παράγοντες όπως είναι η μορφή του προϊόντος, η μέθοδος εφαρμογής, το περιβάλλον εργασίας, η χρησιμοποιούμενη ποσότητα, η συγκέντρωση του προϊόντος και η διαθεσιμότητα των μηχανικών ελέγχων θα πρέπει να λαμβάνονται υπόψη πριν γίνει η τελική επιλογή του ατομικού προστατευτικού εξοπλισμού.

ΕΠΙΠΤΩΣΕΙΣ ΣΤΗΝ ΥΓΕΙΑ ΑΠΟ ΤΗΝ ΕΚΘΕΣΗ:

Θα πρέπει να σημειωθεί ότι οι επιπτώσεις από την έκθεση στο παρόν προϊόν θα εξαρτώνται από πολλούς παράγοντες, στους οποίους περιλαμβάνονται: μορφή του προϊόντος, συχνότητα και διάρκεια χρήσης, χρησιμοποιούμενη ποσότητα, αποτελεσματικότητα των μέτρων ελέγχου, χρησιμοποιούμενος προστατευτικός εξοπλισμός και μέθοδος εφαρμογής. Δεδομένου ότι δεν είναι πρακτική η προετοιμασία μιας έκθεσης που θα περιλαμβάνει όλα τα πιθανά σενάρια, συνιστάται ότι οι χρήστες πρέπει να αξιολογούν τους κινδύνους και να εφαρμόζουν μεθόδους ελέγχου, όπου χρειάζεται.

Αρκτικόλεξα	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Αριθμός Υπηρεσίας Χημικών περιληψέων - χρησιμοποιείται για τον μοναδικό προσδιορισμό χημικών ενώσεων
	CNS	Κεντρικό Νευρικό Σύστημα
	EC No.	EC No - Αριθμός Ευρωπαϊκής Κοινότητας
	EMS	Ταξινομήσεις έκτακτης ανάγκης (Διαδικασίες έκτακτης ανάγκης για Πλοία που μεταφέρουν Επικίνδυνα Αγαθά)
	GHS	Παγκόσμια Εναρμονισμένο Σύστημα
	GTEPG	Οδηγός Διαδικασίας Έκτακτης Ανάγκης Κλειμένου Ομάδων
	IARC	Διεθνής Οργανισμός για την Έρευνα του Καρκίνου
	LC50	Θανατηφόρα συγκέντρωση, 50% / Μέση θανατηφόρα συγκέντρωση
	LD50	Θανατηφόρα δόση, 50% / Μέση θανατηφόρα δόση
	mg/m ³	Milligram ανά κυβικό μέτρο
	OEL	Όριο Επαγγελματικής Έκθεσης
	pH	σχετίζεται με τη συγκέντρωση ιόντων υδρογόνου με κλίμακα από 0 (υψηλή οξύτητα) έως 14 (υψηλή αλκαλικότητα).
	ppm	Μέρη ανά εκατομμύριο
	STEL	Όριο βραχυπρόθεσμης έκθεσης
	STOT-RE	Ειδική τοξικότητα στα όργανα-στόχους (επανεπιλημμένη έκθεση)
	STOT-SE	Ειδική τοξικότητα στα όργανα-στόχους (εφάπαξ έκθεση)
	SUSMP	Πρότυπο για την Ενιαία Ταξινόμηση Φαρμάκων και Δηλητηρίων
	SWA	Safe Work Australia
	TLV	Τιμήοριου κατωφλίου
	TWA	Χρονικά σταθμισμένη μέση τιμή

**Κατάσταση
έκθεσης**

Το παρόν έγγραφο συντάχθηκε από την RMT για λογαριασμό του κατασκευαστή, εισαγωγέα ή προμηθευτή του προϊόντος και έχει τη θέση του Δελτίου Δεδομένων Ασφαλείας ("ΔΔΑ").

Βασίζεται σε πληροφορίες που αφορούν το προϊόν, οι οποίες παρασχέθηκαν στην RMT από τον κατασκευαστή, εισαγωγέα ή προμηθευτή ή αποκτήθηκαν από πηγές τρίτων μερών και θεωρείται ότι αντιπροσωπεύουν την τρέχουσα γνώση σε ό,τι αφορά τις κατάλληλες προφυλάξεις ασφαλείας και χειρισμού για το προϊόν, κατά την έκδοση του παρόντος. Περαιτέρω διευκρινίσεις σχετικά με οποιαδήποτε πτυχή του προϊόντος θα πρέπει να αναζητούνται απευθείας από τον κατασκευαστή, τον εισαγωγέα ή τον προμηθευτή.

Μολονότι η RMT κατέβαλε κάθε δυνατή προσπάθεια ώστε να συμπεριλάβει ακριβείς και ενημερωμένες πληροφορίες στο παρόν ΔΔΑ, δεν παρέχει εγγύηση ως προς την ακρίβεια ή την πληρότητά τους. Στο βαθμό που είναι νομίμως δυνατόν, η RMT δεν αποδέχεται καμία ευθύνη για απώλεια, τραυματισμό ή ζημία (συμπεριλαμβανομένης αποθετικής ζημίας), την οποία ενδέχεται να υποστεί ή να επωμιστεί κάποιο πρόσωπο, ως συνέπεια της εξάρτησής τους από τις πληροφορίες στο παρόν ΔΔΑ.

**Προετοιμάστηκε
από τη**

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Τηλέφωνο: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

[Τέλος του ΔΔΑ]

1. 物质和供应商标识

1.1 产品标识

产品名称 SMARTSTONE
别名 SMART STONE

1.2 建议用途和不建议用途

用途 石英表面处理产品

1.3 产品供应商的详细信息

供应商名称 SMARTSTONE 澳大利亚有限公司
地址 29 Henderson St, Turrella, NSW, 2205, AUSTRALIA
电话 1300 888 607
电子邮件 info@smartstone.com.au
网址 www.smartstone.com.au

1.4 紧急电话

紧急联系电话 1300 888 607

2. 危险性概述

2.1 物质或混合物的分类

根据澳大利亚安全作业标准，不属于危险品

2.2 标签要素

无信号词、象形图、危险或防范说明。

2.3 其它危害

所提供的固体产品在正常条件下是无害的，并且不存在吸入、摄入、皮肤或眼睛接触危害。然而，对产品进行切割、研磨和机械加工时产生的粉尘可能含有结晶型二氧化硅，其中一些可能是可吸入的（颗粒小至足以被吸入肺的深处）。

3. 成分/组成信息

3.1 物质/混合物

成分	CAS 号	EC编号	含量
石英（结晶型二氧化硅）	14808-60-7	238-878-4	>90%
1,3-异苯并呋喃二酮，聚合物 2,5-呋喃二酮和2,2'-氧代双[乙醇]	26123-45-5	-	余量

4. 急救措施

4.1 急救措施的说明

眼睛 （粉尘暴露）用自来水轻轻冲洗，打开眼睑冲洗。如果刺激持续发展，请立即就医。
吸入 （粉尘暴露）如果吸入，请移出污染区域。如果没有呼吸，应进行人工呼吸。
皮肤 （粉尘暴露）用水轻轻冲洗受影响的部位。如果刺激持续发展，请立即就医。
吞食 由于产品形式和用途，不太可能被吞食。
急救设施 未分配。

产品名称 SMARTSTONE

4.2 最重要的症状和效应，包括急性和延迟

如果根据本SDS和产品标签的指导处置本产品，应该不会对健康产生负面影响。

4.3 需立即就医和需要特别治疗的迹象

对症治疗。

5. 消防措施

5.1 灭火剂

使用适合扑灭周围火灾的灭火剂。

5.2 物质或混合物所产生的特别危害

不易燃。如果高温加热，可能会产生有毒气体。

5.3 对消防员的建议

不存在火灾或爆炸危险。

5.4 危险化学品代码

未分配。

6. 泄漏应急处理

6.1 个人防护措施、防护设备和应急处理程序

穿戴个人防护装备（PPE），详见SDS第8部分。

6.2 环境预防措施

防止产品进入下水道和水道。

6.3.1 清理方法

如果溢出，尽可能收集并重复使用。

6.4 关于其它部分

关于暴露控制和处置的内容，请参阅第8和第13部分。

7. 处理和储存

7.1 安全操作注意事项

使用前请认真阅读产品标签。建议采用安全作业方法，以避免与眼睛或皮肤接触和吸入。保持良好的个人卫生，包括进餐前洗手。禁止在受污染的地区进食、饮水和吸烟。

7.2 安全储存条件，包括任何不相容性

没有提供资料。

7.3 特定最终用途

没有提供资料。

8. 暴露控制/个人防护

8.1 控制参数

暴露标准

成分	参考值	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
石英（可吸入粉尘）	SWA（澳大利亚）	--	0.1	--	--

生物学限值

没有为此产品输入生物学限值。

8.2 暴露控制

工程控制措施

避免吸入。在通风良好的区域使用。如果存在吸入风险，建议采用机械通风措施。尽可能保持湿润。保持粉尘水平低于建议的暴露标准。

个人防护用品

眼睛/面部	切割或打磨有可能产生粉尘，请佩戴防尘护目镜。
手部	佩戴皮手套或棉手套。
身体	正常使用条件下不需要采取防护措施。
呼吸	如果切割或打磨有可能产生粉尘，请佩戴P1级（颗粒）呼吸器。



9. 物理与化学性质

9.1 基本物理和化学性质信息

外观	彩色 抛光/研磨/带纹理板材
气味	轻微气味
易燃性	不易燃
闪点	不相关
沸点	不可用
熔点	不可用
蒸发率	不可用
pH	不可用
蒸气密度	不可用
比重	不可用
溶解度（水）	难溶
蒸气压	不可用
爆炸上限	不相关
爆炸下限	不相关
分配系数	不可用
自燃温度	不可用
分解温度	不可用
粘度	不可用
易爆性	不可用
氧化性	不可用
气味阈值	不可用

10. 稳定性与反应性

10.1 反应性

请认真阅读第10.2至10.6节中提供的所有信息。

10.2 化学稳定性

在推荐的储存条件下稳定。

10.3 危险反应的可能性

预计不会发生聚合反应。

10.4 应避免的情况

避免接触高温、火花、明火和其他点火源。

10.5 不相容的材料

与强酸（例如氢氟酸）不相容。

10.6 危险的分解产物

如果加热至分解，可能会产生有毒气体。

11. 毒理学信息

11.1 关于毒理学效应的信息

急性毒性 预计此产品的毒性较低。由于产品的形式，预计不太可能被食入。

皮肤	机械刺激物。长时间或反复接触可能会因机械作用而导致受到轻度刺激。
眼睛	机械刺激物。由于产品形式和使用性质，发生暴露的可能性较低。如果对材料进行切割、钻孔或打磨而产生粉尘，产品可能导致机械性刺激，只有这样才会造成危险。
致敏性	不属于导致皮肤或呼吸道过敏的物质。
致突变性	不属于诱变剂。
致癌性	由于产品形式，预计本产品不会造成不良的健康影响，通常这种影响长期暴露于高浓度结晶型二氧化硅粉尘相关。只有在切割或钻孔导致产生粉尘的情况下，本产品才可能带来危险。结晶型石英被归类为对人类致癌（IARC Group 1）的位置。
生殖	不属于生殖毒素。
STOT - 单次暴露	在切割产品过程中可能产生粉尘。粉尘是机械刺激物，可能会导致喉咙受到刺激。
STOT - 重复暴露	由于产品形式，预计本产品不会造成不良的健康影响，通常这种影响长期暴露于高浓度结晶型二氧化硅粉尘相关。只有在切割或钻孔导致产生粉尘的情况下，本产品才可能带来危险。长期接触粉尘可能会导致肺纤维化（矽肺）。
吸入	不适用于固体。

12. 生态信息

12.1 毒性

没有提供资料。

12.2 持久性和降解性

没有提供资料。

12.3 潜在生物累积性

没有提供资料。

12.4 土壤中的移动性

没有提供资料。

12.5 其它不利影响

预计该产品的主要成分不会对植物或动物造成任何不良影响。

13. 处置问题

13.1 废物处理方法

废物处理法规 尽可能重复使用。根据本地相关法规进行处置。根据本地相关法规进行处置。

14. 运输信息

根据ADG, IMDG或IATA的标准，不属于危险品

	陆路运输(ADG)	海运运输 (IMDG/IMO)	航空运输 (IATA/ICAO)
14.1 UN编号。	未分配。	未分配。	未分配。
14.2 正确的运输名称	未分配。	未分配。	未分配。
14.3 运输危险等级	未分配。	未分配。	未分配。
14.4 包装组别	未分配。	未分配。	未分配。

14.5 环境危害

没有提供资料。

14.6 用户特别注意事项

化学危险品标记符号 未分配。

15. 法规信息

15.1 安全性、健康与环境法规/对物质或混合物的具体法规

毒物计划	分类	尚未根据《药品和有毒物质统一调度标准》（SUSMP）中的标准为该产品分配毒物计划编号。 澳大利亚安全作业标准基于化学品分类和标签全球协调系统（GHS）制定。 下面列出的类别和短语基于危险物质分类审批标准[NOHSC: 1008(2004)]。
危险代码		未分配。
风险短语		未分配。
安全短语		未分配。
库存清单		澳大利亚：AICS（澳大利亚化学物质清单） 所有成分都列入AICS，或者豁免。

16. 其他信息

其它信息

个人防护装备指南：

本报告中包含的防护设备建议仅供参考。在最终选择个人防护设备之前，应考虑产品形式、使用方法、工作环境、使用数量、产品浓度和工程控制措施可用性等因素。

暴露对健康的影响：

应该注意的是，接触本产品所受到的影响取决于多个因素，包括：产品形式；使用频率和持续时间；使用量；控制措施的有效性；使用的防护设备和使用方法。鉴于编制一份涵盖能够所有可能情况的报告是不切实际的，用户应评估风险并适当地采用控制措施。

缩写

ACGIH	美国政府工业卫生专家协会
CAS号	化学文摘服务编号 - 用于化合物的唯一识别
CNS	中枢神经系统
EC编号	EC编号 - 欧洲共同体编号
EMS	应急措施表（用于运载危险货物船舶的应急程序）
GHS	全球统一制度
GTEPG	集团文本应急程序指南
IARC	国际癌症研究机构
LC50	致死浓度，50%/中位致死浓度
LD50	致死剂量，50%/中位致死剂量
mg/m ³	毫克每立方米
OEL	职业接触限值
pH	使用0（高酸性）至14（高碱性）的标度表示的氢离子浓度相关指标。
ppm	百万分之一
STEL	短期接触限值
STOT-RE	特异性靶器官毒性（多次暴露） -
STOT-RE	特异性靶器官毒性（单次暴露）
SUSMP	药品和有毒物质统一调度标准
SWA	澳大利亚安全作业
TLV	阈值
TWA	加权时间平均值

产品名称

SMARTSTONE

报告状态

本文件由RMT代表产品制造商、进口商或供应商编制，并作为其化学品安全技术说明书（“SDS”）。

本文以本产品以制造商、进口商或供应商为 RMT 提供的或从第三方获得的相关信息为基础，我们认为这些信息在本文发布时正确反映了我们对产品安全性和处理预防措施的了解。关于本产品的进一步说明，请直接向从制造商、进口商或供应商索取。

虽然 RMT 已尽力在本SDS中包含准确和最新的信息，但对于准确性或完整性不提供任何保证。在合法的可能情况下，RMT对任何人因使用本 SDS 中包含的信息而遭受或可能遭受的任何损失、伤害或损害（包括后果性损失）不承担任何责任。

编写

Risk Management Technologies

5 Ventnor Ave, West Perth

Western Australia 6005

电话: +61 8 9322 1711

传真: +61 8 9322 1794

电子邮件: info@rmt.com.au

网址: www.rmt.com.au

[SDS结尾]

1. NHÂN DẠNG HÓA CHẤT

1.1 Tên sản phẩm

Tên sản phẩm SMARTSTONE
 Từ đồng nghĩa SMART STONE

1.2 Công dụng và công dụng nên tránh

Công dụng SẢN PHẨM MẶT ĐÁ THẠCH ANH

1.3 Thông tin chi tiết về nhà cung cấp sản phẩm

Tên nhà cung cấp SMARTSTONE AUSTRALIA PTY LIMITED
 Địa chỉ 29 Henderson St, Turrella, NSW, 2205, AUSTRALIA
 Điện thoại 1300 888 607
 Email info@smartstone.com.au
 Trang web www.smartstone.com.au

1.4 Số điện thoại khẩn cấp

Khẩn cấp 1300 888 607

2. NHÂN DẠNG ĐỘC TÍNH NGUY HIỂM CỦA HÓA CHẤT

2.1 Phân loại chất hóa học

KHÔNG ĐƯỢC PHÂN LOẠI LÀ NGUY HẠI THEO TIÊU CHÍ NƠI LÀM VIỆC AN TOÀN CỦA NƯỚC ÚC

2.2 Các thành phần nguy hiểm

Không có từ cảnh báo, hình ảnh cảnh báo, cảnh báo nguy cơ hay biện pháp phòng ngừa nào được quy định phù hợp cho sản phẩm này.

2.3 Các nguy cơ khác

Sản phẩm ở trạng thái rắn như khi được cung cấp, được phân loại là không nguy hại trong điều kiện bình thường và không gây nguy hại cho đường hô hấp, đường tiêu hóa, da, hoặc mắt. Tuy nhiên, bụi sinh ra khi cắt, mài và gia công sản phẩm có thể chứa silica tinh thể, một phần nào đó của chất này sẽ có thể bị hít phải (các hạt đủ nhỏ để bị hít sâu vào trong phổi).

3. THÔNG TIN VỀ THÀNH PHẦN HÓA CHẤT

3.1 Chất / Hợp chất

Thành phần	Số CAS	Số EC	Hàm lượng
THẠCH ANH (SILICA TINH THỂ)	14808-60-7	238-878-4	>90%
1,3-ISOBENZOFURANDIONE, POLYMER VỚI 2,5-FURANDIONE AND 2,2'-OXYBIS[ETHANOL]	26123-45-5	-	Phần còn lại

4. BIÊN PHƯƠNG SƠ CỨU Y TẾ

4.1 Mô tả các biện pháp sơ cứu

Mắt (Tiếp xúc với bụi) Rửa nhẹ nhàng dưới vòi nước chảy, rửa c dưới mí mắt. Tìm y tế chăm sóc nếu bị kích ứng.
Hít phải (Tiếp xúc với bụi) Nếu hít phải, đưa ra khỏi khu vực ô nhiễm. Làm hô hấp nhân tạo nếu không thở.
Da (Tiếp xúc với bụi) Rửa nhẹ khu vực bị tiếp xúc bằng nước. Tìm y tế chăm sóc nếu bị kích ứng.
Ăn phải Do dạng và cách sử dụng của sản phẩm, ăn phải được xem là sẽ không xảy ra.
Các phương tiện sơ cứu Không có phương tiện nào được quy định phù hợp.

TÊN SẢN PHẨM SMARTSTONE

4.2 Các triệu chứng và tác dụng quan trọng nhất, cả cấp tính và chậm xuất hiện

Không có tác dụng bất lợi nào cho sức khỏe dự kiến sẽ gặp phải nếu sản phẩm được thao tác theo Phiếu An toàn Hóa chất này và nhãn sản phẩm.

4.3 Biện pháp cấp cứu và điều trị đặc biệt cần dùng

Điều trị triệu chứng.

5. BỊ NHIỄM PHÂN LƯU KHI CHIA HOÀN

5.1 Chất chữa cháy

Dùng chất chữa cháy phù hợp với đám cháy xung quanh.

5.2 Các nguy cơ đặc biệt phát sinh từ chất hóa học

Không dễ cháy. Có thể phát ra khí độc nếu bị gia nhiệt cao.

5.3 Hướng dẫn cho nhân viên chữa cháy

Không có nguy cơ gây cháy hoặc nổ.

5.4 Mã Hazchem

Không được cấp.

6. BỊ NHIỄM PHÂN NGUYỄN, NGUYỄN KHI SỬ DỤNG

6.1 Các biện pháp đề phòng cho người, trang bị bảo hộ và quy trình xử lý khẩn cấp

Sử dụng Trang Bị Bảo Hộ Cá Nhân theo hướng dẫn chi tiết trong mục 8 của Phiếu An toàn Hóa chất.

6.2 Các biện pháp đề phòng cho môi trường

Ngăn không để cho sản phẩm xâm nhập vào cống rãnh và kênh rạch.

6.3 Các phương pháp làm sạch

Nếu bị tràn đổ, thu gom và sử dụng lại nếu được.

6.4 Tham khảo các mục khác

Xem các Mục 8 và 13 để biết cách kiểm soát tiếp xúc và thải bỏ.

7. YẾU CỐ VÀ CẮT GI

7.1 Các biện pháp đề phòng cho thao tác an toàn

Đọc kỹ nhãn sản phẩm trước khi dùng. Sử dụng các biện pháp làm việc an toàn để tránh bị tiếp xúc với mắt hoặc da và hít phải. Thực hành vệ sinh cá nhân tốt, kể cả rửa tay trước khi ăn. Cấm ăn, uống và hút thuốc trong các khu vực bị nhiễm.

7.2 Các điều kiện bảo quản an toàn, kể cả mọi tính chất tương kỵ

Không có thông tin nào được cung cấp.

7.3. Các công dụng đặc biệt cho người dùng trực tiếp

Không có thông tin nào được cung cấp.

8. TÁC ĐỘNG LÊN NGƯỜI VÀ YẾU CỐ VÀ THIẾT BỊ BẢO VỆ CÁ NHÂN

8.1 Các thông số kiểm soát

Tiêu chuẩn tiếp xúc

Thành phần	Tiêu chuẩn tham khảo	TWA (Nồng độ bình quân được phép tiếp xúc theo thời gian)		STEL (Giới hạn tiếp xúc ngắn hạn)	
		ppm	mg/m ³	ppm	mg/m ³
Thạch anh (bụi có thể hít vào phổi)	SWA (ÚC)	--	0,1	--	--

Các giới hạn sinh học

Không có giới hạn sinh học nào được quy định cho sản phẩm này.

8.2 Biện pháp kiểm soát tiếp xúc

Biện pháp kiểm soát kỹ thuật

Tránh hít phải. Sử dụng ở khu vực thông thoáng. Khi có nguy cơ bị hít phải, nên dùng máy hút thoát. Sử dụng nước nếu có thể. Luôn giữ cho nồng độ bụi dưới tiêu chuẩn tiếp xúc đề nghị.

Trang Bị Bảo Hộ Nhân

- M t / M t** Nếu cắt hoặc đánh cát có nguy cơ sinh bụi, phải đeo kính bảo hộ.
- Tay** Đeo găng tay bằng da thuộc hoặc vải cotton.
- Thân người** Không cần gì trong điều kiện sử dụng bình thường.
- Đường hô hấp** Nếu cắt hoặc đánh cát có nguy cơ sinh bụi, đeo khẩu trang Loại P1 (Chống Hạt).

**9. ĐẶC TÍNH LỢI, HẠI VÀ CÁC HAZARD****9.1 Thông tin về các tính chất vật lý và hóa học**

Ngoại Quan	TẮM ĐÁ MÀU ĐÃ ĐƯỢC ĐÁNH BÓNG/MÀI/TẠO VÂN
Mùi	MÙI NHẸ
Khả năng cháy	KHÔNG DỄ CHÁY
Điểm chớp cháy	KHÔNG LIÊN QUAN
Điểm sôi	KHÔNG CÓ
Điểm nóng chảy	KHÔNG CÓ
Tốc độ bay hơi	KHÔNG CÓ
pH	KHÔNG CÓ
Tỷ trọng hơi	KHÔNG CÓ
Trọng lượng riêng	KHÔNG CÓ
Đốt tan (trong nước)	KHÔNG TAN
Áp suất hơi	KHÔNG CÓ
Giới hạn nổ trên	KHÔNG LIÊN QUAN
Giới hạn nổ dưới	KHÔNG LIÊN QUAN
Hệ số phân tán	KHÔNG CÓ
Nhiệt độ bốc cháy	KHÔNG CÓ
Nhiệt độ phân hủy	KHÔNG CÓ
Độc tính	KHÔNG CÓ
Tính chất nổ	KHÔNG CÓ
Tính chất oxy hóa	KHÔNG CÓ
Ngưỡng cảm nhận mùi	KHÔNG CÓ

10. MỨC ĐỘ NHU YÊU KHẢ NĂNG HOẠT ĐỘNG CÁC HAZARD**10.1 Khả năng phản ứng**

Xem kỹ tất cả mọi thông tin trong các mục từ 10.2 đến 10.6.

10.2 Độ bền hóa học

Bền trong các điều kiện bình thường.

10.3 Khả năng gây phản ứng nguy hiểm

Dự kiến sẽ không xảy ra phản ứng polymer hóa.

10.4 Các điều kiện cần tránh

Tránh nhiệt, tia lửa, ngọn lửa trần và các nguồn lửa khác.

10.5 Vật liệu tương kỵ

Tương kỵ với các acid mạnh (ví dụ như hydrofluoric acid)

10.6 Sản phẩm phân hủy gây nguy hiểm

Có thể phát ra khí độc nếu bị gia nhiệt đến mức độ phân hủy.

11. THÔNG TIN VỀ ĐỘC TÍNH**11.1 Thông tin về các tính chất độc hại**

Độc tính cấp tính Sản phẩm này được xem là có độc tính thấp. Ăn phải được xem là không thể xảy ra do dạng của sản phẩm.

TÊN SẢN PHẨM SMARTSTONE

Da	Chất kích ứng cơ học. Tiếp xúc lâu hoặc lặp lại có thể gây kích ứng nhẹ do tác động cơ học.
M t	Chất kích ứng cơ học. Do dạng của s n phẩm và b n chất của công dụng, kh năng tiếp xúc sẽ ít.S n phẩm chỉ gây nguy cơ khi được cắt, khoan hoặc đánh cát có sinh bụi, có thể d n đến bị kích ứng cơ học.
Khả năng gây m n cảm	Không được phân loại là gây kích ứng da hoặc đường hô hấp.
Khả năng gây đ t biến gien	Không được phân loại là chất gây đột biến gien.
Khả năng gây ung thư	Các tác dụng bất lợi cho sức khỏe, v n luôn gắn liền với việc tiếp xúc lâu dài với nồng độ cao của bụi silica tinh thể, dự kiến sẽ không gặp do dạng của s n phẩm. S n phẩm này chỉ gây nguy cơ khi đá được cắt hoặc khoan có sinh bụi. Thạch anh tinh thể được phân loại là chất gây ung thư cho người (Nhóm 1 theo Tổ chức nghiên cứu ung thư qu c tế IARC).
Sinh sản	Không được phân loại là chất độc sinh s n.
Đ c tính v i cơ quan mục tiêu cụ thể (STOT) - tiếp x c m t l n	Bụi có thể sinh ra khi cắt s n phẩm. Bụi là chất kích ứng cơ học có thể gây kích ứng họng.
Đ c tính v i cơ quan mục tiêu cụ thể (STOT) - tiếp x c l p lại	Các tác dụng bất lợi cho sức khỏe, v n luôn gắn liền với việc tiếp xúc lâu dài với nồng độ cao của bụi silica tinh thể, dự kiến sẽ không gặp do dạng của s n phẩm. S n phẩm này chỉ gây nguy cơ khi đá được cắt hoặc khoan có sinh bụi. Tiếp x c lâu dài với bụi có thể bị xơ phổi (bụi phổi silic).
S c phải	Không áp dụng cho chất rắn

12. THÔNG TIN V SINH THÁI

12.1 Đ c t nh

Không có thông tin nào được cung cấp.

12.2 Đ bền v khả năng phân h y

Không có thông tin nào được cung cấp.

12.3 Khả năng t ch tu sinh học

Không có thông tin nào được cung cấp.

12.4 Khả năng di chuyển trong đất

Không có thông tin nào được cung cấp.

12.5 Các tác dụng có hại khác

(Các) thành phần chính của s n phẩm này dự kiến sẽ không gây bất kỳ tác dụng có hại nào cho thực vật hoặc động vật.

13. YẾU C U TRONG VI C THẢI B

13.1 C c phương ph p x l chất thải

Thải bỏ chất thải Sử dụng lại nếu được. Th i bỏ theo các quy định tại địa phương.

Luật Th i bỏ theo luật liên quan của địa phương.

14. YẾU C U TRONG VẬN CHUY N

KHÔNG ĐƯỢC PHÂN LOẠI LÀ HÀNG NGUY HI M THEO TIÊU CHÍ C A B LUẬT VẬN CHUY N H NG NGUY HI M THEO ĐƯ NG B V ĐƯ NG S T C A C (ADG), IMDG ((QUY Đ NH C A LIÊN HI P QU C V VẬN CHUY N ĐƯ NG BI N HÀNG NGUY HI M) HO C IATA (HI P H I VẬN CHUY N HÀNG KHÔNG QU C TẾ)

	VẬN CHUY N ĐƯ NG B (ADG)	VẬN CHUY N ĐƯ NG BI N (IMDG / IMO)	VẬN CHUY N ĐƯ NG HÀNG KHÔNG (IATA / ICAO):
14.1 Số UN	Không được cấp.	Không được cấp.	Không được cấp.
14.2 Tên riêng dùng trong vận chuyển	Không được cấp.	Không được cấp.	Không được cấp.
14.3 Nh m nguy cơ vận chuyển	Không được cấp.	Không được cấp.	Không được cấp.
14.4 Nh m đ ng g i	Không được cấp.	Không được cấp.	Không được cấp.

14.5 C c nguy cơ cho môi trư ng

Không có thông tin nào được cung cấp.

14.6 C c biên ph p đề ph ng đ c biệt cho ngư i d ng

Mã Hazchem Không được cấp.

15. QUY CHUẨN K THUẬT V QUY Đ NH PH P LUẬT PHẢI TUÂN TH**15.1 Quy định/luật ph p về an to n, sức khỏe v môi trư ng riêng cho chất ho c h n h p**

Bảng đ c	Chưa có s b ng độc nào được cấp cho s n phẩm này theo tiêu chí trong Tiêu chuẩn về việc Xếp B ng Th ng nhất cho Thu c và Chất độc (Standard for the Uniform Scheduling of Medicines and Poisons - SUSMP).
Phân loại	Tiêu chí làm việc an toàn của Úc được dựa theo Hệ th ng Hải hòa Toàn cầu (GHS) về Phân loại và Ghi nhãn Hóa chất. Các phân loại và tiêu ng liệt kê sau đây được dựa theo Tiêu ch Đã Được Phê chuẩn cho việc Phân loại Chất Nguy hại [NOHSC: 1008(2004)].
M nguy cơ	Không được cấp.
Tiêu ngữ nguy cơ	Không được cấp.
Tiêu ngữ an toàn	Không được cấp.
Liệt kê trong danh mục	ÚC: AICS (Danh Mục Hóa Chất c) Tất c các thành phần đều được liệt kê trong AICS hoặc được miễn.

16. THÔNG TIN C N THIẾT KH C

Thông tin thêm	HƯỚNG DẪN VỀ TRANG BỊ BẢO HỘ CÁ NHÂN: Các đề nghị về trang bị b o hộ trong báo cáo này chỉ được cung cấp với mục đ ch hướng d n mà thôi. Cần xem xét các yếu t như dạng s n phẩm, phương pháp ứng dụng, môi trường làm việc, s lượng dùng, hàm lượng s n phẩm và biện pháp kiểm soát kỹ thuật trước quyết định chọn trang bị b o hộ cá nhân.	
	CÁC TÁC DỤNG CHO SỨC KHỎE DO VIỆC TIẾP XÚC: Cần lưu ý rằng các tác dụng do việc tiếp xúc với s n phẩm này sẽ phụ thuộc vào nhiều yếu t như: dạng s n phẩm, tần suất hay thời gian sử dụng; s lượng sử dụng, hiệu qu của biện pháp kiểm soát; trang bị b o hộ sử dụng và phương pháp ứng dụng. Việc biên soạn một báo cáo bao quát cho tất c các tình hu ng có thể x y ra là không thực tế, người dùng có trách nhiệm đánh giá các nguy cơ và áp dụng phương pháp kiểm soát khi phù hợp.	
Từ viết t t	ACGIH	Hội Nghị Chuyên Gia Vệ Sinh Công Nghiệp của Ch nh Phủ Hoa Kỳ
	S CAS	S của Chemical Abstract Service (Dịch Vụ Thông Tin Hóa Chất Tóm Tắt) cấp - được dùng để định danh chính xác hợp chất hóa học
	CNS	Hệ Thần kinh Trung ương
	S EC	S của Cộng Đồng Châu Âu
	EMS	Kế hoạch Ứng phó Khẩn cấp (Quy trình Xử lý Khẩn cấp cho Tàu Vận chuyển Hàng Nguy hiểm)
	GHS	Hệ th ng Hải hòa Toàn cầu về Phân loại và Ghi nhãn hóa chất
	GTEPG	Hướng d n về Quy trình Xử lý Khẩn cấp cho Nhóm S n phẩm
	IARC	Cơ Quan Nghiên Cứu Ung Thư Qu c Tế
	LC50	Nồng Độ Tử Vong 50% / Nồng độ Tử vong Trung vị
	LD50	Liều Tử vong 50% / Liều Tử vong Trung vị
	mg/m ³	Milligram trong mỗi mét kh i
	OEL	Giới hạn Tiếp xúc Nghề nghiệp
	pH	Biểu thị nồng độ của ion hydrogen theo thang đo từ 0 (acid cao) đến 14 (kiềm cao).
	ppm	Một phần triệu
	STEL	Giới hạn Tiếp x c Ngắn hạn
	STOT-RE	Độc t nh đ i với cơ quan mục tiêu cụ thể (tiếp xúc một lần)
	STOT-SE	Độc t nh đ i với cơ quan mục tiêu cụ thể (tiếp xúc lặp lại)
	SUSMP	Tiêu chuẩn về việc Xếp B ng Th ng nhất cho Thu c và Chất độc
	SWA	Safe Work Australia (Cơ quan Lao động An toàn của nước Úc)
	TLV	Giá Trị Ngưỡng
	TWA	Nồng độ bình quân được phép tiếp xúc theo thời gian

Tình trạng báo cáo

Tài liệu này do RMT biên soạn thay cho nhà sản xuất, nhà nhập khẩu hoặc nhà cung cấp sản phẩm và được dùng thay cho Phiếu An Toàn Hóa Chất (SDS) của họ.

Tài liệu này được dựa trên các thông tin liên quan đến sản phẩm đã được nhà sản xuất, nhà nhập khẩu hoặc nhà cung cấp cung cấp cho RMT hoặc nhận được từ địa tác bên ba và được tin tưởng là đại diện cho tình trạng hiểu biết hiện nay về tính an toàn phù hợp và các biện pháp đề phòng khi thao tác cho sản phẩm này vào thời điểm ban hành. Để biết rõ hơn về bất kỳ phương diện nào của sản phẩm, xin liên hệ trực tiếp với nhà sản xuất, nhà nhập khẩu hoặc nhà cung cấp.

Tuy RMT đã cố gắng hết sức để sử dụng các thông tin chính xác và mới nhất cho Phiếu An toàn Hóa chất này, RMT cũng không bảo đảm được tính chính xác và đầy đủ của thông tin. Trong phạm vi pháp luật cho phép, RMT không chịu bất kỳ trách nhiệm pháp lý nào về bất kỳ trường hợp mất mát, tổn thương hay thiệt hại nào (kể cả các thiệt hại mang tính chất hậu quả) mà bất kỳ người nào đó có thể sẽ bị hay phải chịu do hậu quả của việc tin tưởng vào thông tin trong Phiếu An toàn Hóa chất này.

Nơi Soạn Thảo

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Điện thoại: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Trang web:
www.rmt.com.au

**[Kết thúc
phiếu an toàn
hóa chất]**