

# SAFETY DATA SHEET

## COTRONICS THERMEEZ CERAMIC ADHESIVE PUTTY

Infosafe No.: LQ85I  
ISSUED Date: 01/08/2017  
Issued by: Measure-Tech Australia

### 1. IDENTIFICATION

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**GHS Product Identifier**

COTRONICS THERMEEZ CERAMIC ADHESIVE PUTTY

**Product Code**

7020

**Company Name**

Measure-Tech Australia (ABN 33 998 859 720)

**Address**

5/4 Kirkham Rd DANDENONG SOUTH  
VIC 3175 AUSTRALIA

**Telephone/Fax Number**

Tel: 03 8779 0000

Fax: 03 8779 0050

**Emergency phone number**

03 8779 0000 9-5pm Mon-Fri

**E-mail Address**

sales@measuretech.com.au

**Recommended use of the chemical and restrictions on use**

Adhesive

### 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Oral: Category 4

Eye Damage/Irritation: Category 2A

Sensitization - Skin: Category 1

Skin Corrosion/Irritation: Category 2

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

**Pictogram (s)**

Exclamation mark



#### Precautionary statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

#### Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Information on Composition

This product contains <0.1% Ethylene oxide (CAS 75-21-8) and <0.1% propylene oxide (CAS 75-56-9) both of which are classified as Schedule 7 poisons.

#### Ingredients

Name	CAS	Proportion
Silica	7631-86-9	10-<25 %
Refractory Ceramic Fibers (RCF)	142844-00-6	10-<25 %
Ethylene glycol	107-21-1	1-<2.5 %
Sodium hydroxide	1310-73-2	0-<1 %
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0-<1 %
Ingredients determined not to be hazardous		Balance

#### Preparation Description

When encapsulated in a liquid mixture, powders are not expected to pose a health hazard when processed under normal conditions of use.

### 4. FIRST-AID MEASURES

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#### Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

#### Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

**Eye contact**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities**

Eyewash, safety shower and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and formaldehyde.

**Specific Hazards Arising From The Chemical**

Not available

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

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## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

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

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

**Storage Temperatures**

Room temperature

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limit values**

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Silica

TWA: 2 mg/m<sup>3</sup>

Ethylene glycol (vapour)

TWA: 20 ppm, 52 mg/m<sup>3</sup>  
STEL: 40 ppm, 104 mg/m<sup>3</sup>  
Ethylene glycol (particulate)  
TWA: 10 mg/m<sup>3</sup>  
Sodium hydroxide  
TWA: 2 mg/m<sup>3</sup>  
NOTE: Peak limitation

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

#### **Biological Limit Values**

No biological limit allocated.

#### **Appropriate Engineering Controls**

Use with good general ventilation. If dusts, mists or vapours are produced, local exhaust ventilation should be used.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist/dust filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

#### **Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

#### **Hand Protection**

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

#### **Other Information**

This product as manufactured is a silicate which contains encapsulated silica. It is not considered respirable in the liquid form or cured form. If the cured cement is heated the silica could transform to mullite and cristobalite (a form of crystalline silica). Removal of this product in the cured state is done by mechanical means. This may cause the generation of dust. The available exposure limits for Crystalline Silica (Cristobalite, CAS 14464-46-1) is TWA: 0.1 mg/m<sup>3</sup> (respirable dust).

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Paste	Appearance	Whitish putty
Colour	Whitish	Odour	Odourless
Decomposition Temperature	Not available	Melting Point	Not available
Boiling Point	100°C	Solubility in Water	Not miscible or difficult to mix.
pH	Not available	Vapour Pressure	Not available
Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Odour Threshold	Not available	Viscosity	Not available
Partition Coefficient: n-octanol/water	Not available	Density	1.38 g/cm <sup>3</sup> (20 °C)
Flash Point	Not applicable	Flammability	Non-combustible material
Auto-Ignition Temperature	>370 °C Product is not selfigniting.	Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable	Explosion Properties	Product does not present an explosion hazard.

### Other Information

Organic solvents: <2.5 %

## 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable under normal conditions of storage and handling.

### Reactivity and Stability

Not available

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Not available

### Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and formaldehyde.

### Possibility of hazardous reactions

Not available

## 11. TOXICOLOGICAL INFORMATION

### Toxicology Information

No toxicity data available for this material. Data for ingredients is given below.

#### Acute Toxicity - Oral

Silica

LD50 (rat): 5000 - 10,000 mg/kg (OECD Guideline 401)

#### Acute Toxicity - Inhalation

Silica

LC0 (rat): > 140 - > 2000 mg/l/ 4h (OECD Guideline 403)

(Maximum attainable concentration, mortality does not appear)

### **Acute Toxicity - Dermal**

Silica

LD50 (rabbit): > 5000 mg/kg

### **Ingestion**

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

### **Inhalation**

Inhalation of product dusts, mists or vapours may cause irritation of the nose, throat and respiratory system.

### **Skin**

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.

### **Eye**

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

### **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

May cause an allergic skin reaction.

### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

Crystalline Silica (respirable size  $\leq 18 \mu\text{m}$ ) (cristobalite) has been classified by the International Agency for Research on Cancer (IARC) as Carcinogenic to Humans (Group 1).

Refractory ceramic fibres is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Silica is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

### **STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

### **STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

Not expected to be an aspiration hazard.

### **Other Information**

This product as manufactured contains silicate which could transform upon heating to mullite and cristobalite (a form of crystalline silica). Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma. Exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema and asthma.

## **12. ECOLOGICAL INFORMATION**

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### **Ecotoxicity**

No ecological data available for this material. Data for ingredients is given below.

### **Persistence and degradability**

Not available

### **Mobility**

Not available

### **Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

**Acute Toxicity - Fish**

Silica

LC0 (Zebra Fish) : 10000 mg/l/96h (OECD Guideline 203)(static)

**Acute Toxicity - Daphnia**

Silica

EC50 (Daphnia magna): > 1000 mg/l/24 h (OECD Guideline 202)

**Acute Toxicity - Algae**

Silica

EC50 (Scenedesmus subspicatus): >10000 mg/l/ 72 h (OECD Guideline 201)(Comparable substance)

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**13. DISPOSAL CONSIDERATIONS****Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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**14. TRANSPORT INFORMATION****Transport Information**

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

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**15. REGULATORY INFORMATION****Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled 7 Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Schedule 7 Poisons should be available only to specialised or authorised users. Special regulations restricting their availability, possession, storage or use may apply.

**Poisons Schedule**

S7

## 16. OTHER INFORMATION

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### Date of preparation or last revision of SDS

SDS created: August 2017

### References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

## END OF SDS

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