SAFETY DATA SHEET

COTRONICS THERMEEZ CERAMIC ADHESIVE PUTTY

Infosafe No.: LQ85I
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Issued by: Measure-Tech Australia

1. IDENTIFICATION

GHS Product Identifier
COTRONICS THERMEEZ CERAMIC ADHESIVE PUTTY

Product Code
7020

Company Name
Measure-Tech Australia (ABN 33 998 859 720)

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VIC 3175 AUSTRALIA

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Emergency phone number
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E-mail Address
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Recommended use of the chemical and restrictions on use
Adhesive

2. HAZARD IDENTIFICATION

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 to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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.

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.

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.

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

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/m³
Ethylene glycol (vapour)

TWA: 20 ppm. 52 mg/m³
STEL: 40 ppm, 104 mg/m³
Ethylene glycol (particulate)
TWA: 10 mg/m³
Sodium hydroxide
TWA: 2 mg/m³
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 respiralble in the liquid form or cured form. If the cured cement is heated the silica could transform to mullite and crystobalite (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/m³ (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/cm³ (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 <= 18 µm) (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 crystobalite (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, emphysaema and asthma.

12. ECOLOGICAL INFORMATION

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)

13. DISPOSAL CONSIDERATIONS

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

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

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

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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