

SAFETY DATA SHEET



SECTION 1 - IDENTIFICATION OF PRODUCT AND SUPPLIER

PRODUCT IDENTIFIER SILACOAT Z

OTHER NAMES Refractory mortar, coating /adhesive

PRODUCT CODE SCOATZ/25

PHYSICAL DESCRIPTION Off white powder

USES Refractory powder for use as a veneering coating in industrial furnaces,

associated vessels and equipment. Apply by hand trowel, brushing or

pneumatic spraying.

MANUFACTURER/IMPORTER

COMPANY NAME
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EMERGENCY CONTACT 13 11 26 - Poisons Information Centre

SECTION 2 - HAZARD INDENTIFICATION

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Not Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

SIGNAL WORD WARNING

HAZARD STATEMENT

Hazard Category	Hazard Statement	Symbol
Acute Toxicity, Category 5 Skin Irritation, Category 3 Eye Irritation STOT: Single Exposure, Category 3	H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation	

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Carcinogen, Category 2	H351: Suspected of causing cancer Note: This product contains crystalline silica, some of which may be respirable and suspected of causing cancer if inhaled. Crystalline silica is also found in beach sand.	
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PRECAUTIONARY STATEMENTS

Prevention:	P233: Keep container tightly closed. P260: Do not breathe dust P262: Do not get in eyes P264: Wash hands/skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.
	P281: Use personal protective equipment as required. P285: In case of inadequate ventilation wear respiratory protection.
Response:	P312: Call a POISON CENTER or doctor/physician if you feel unwell. P315: Get immediate medical advice/attention. P335: Brush off loose particles from skin. P301 +P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention. P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Storage:	P401: Store in multi-ply bags or heavy gauge plastic bags, ensure to check for leaks. P402: Store in a dry place. P404: Store in a closed container.
Disposal:	P501: Dispose of containers to land fill or recycle where possible

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%)
Zirconium Silicate	14940-68-2	75-95
Silicon Dioxide (Crystalline/Amorphous)	14808-60-7	<10
Sodium Hexametaphosphate	10124-56-8	<10
Aluminium Silicate	37287-16-4	<2
Notes: Trace Amounts of Iron Oxide, Calcium Oxide and Alkalis <1% total		

SECTION 4 – FIRST AID MEASURES

Description of First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Rinse mouth.

Get immediate medical advice/attention.

Skin Contact: Brush off dust.

Wash affected areas thoroughly with water and soap if available.

Seek medical attention in the event of irritation.

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Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician if you feel unwell.

First Aider Safety: Ensure not to get exposed by Inhalation, Ingestion or eye contact while assisting.

Wash skin with plenty of soap and water after assisting.

Symptoms of Exposure

Inhalation: Irritation, abrasion and potential to inflame conditions such as emphysema or chronic

bronchitis

Skin Contact: irritation, prolonged exposure can result in dermatitis and lead to skin hardening

cracking and lesions.

Lesions can lead to infection and penetration of soluble salts.

Eye Contact: Irritation and Abrasion

Ingestion: Irritation to the gastro- intestinal tract, nausea, abdominal irritation pain and vomiting

Medical Attention and Special Treatment

Advice to Doctor

Treat symptomatically

Medical Conditions Aggravated by Exposure

Potential to aggravate respiratory conditions such as asthma and skin conditions such as eczema

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment

Non-flammable, use extinguisher appropriate for surrounding fire.

Specific Hazards Arising From Chemical

N/A

Special PPE for Fire Fighters

N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid exposure to dust Avoid skin contact

Follow Personal Protection procedures (Section 8)

Environmental precautions

Contain to avoid environmental contamination.

Methods and material for containment and cleaning up

Clear area of personnel and move upwind

Use dry clean up procedures

If inhalation or exposure exists wear SAA approved dust respirator Collect recoverable product into labeled containers for recycling

SECTION 7 - HANDLING & STORAGE, INCLUDING SAFE USAGE

Safe Handling Precautions

Use in well ventilated area.

General Exhaust is adequate under normal operating conditions

Storage Conditions

Multi-ply bag with sealed plastic liner or heavy gauge plastic bags

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Check all containers are labeled and free of leaks

Packing as recommended by the manufacturer or reinforced bags (bulk bag) for dense material Items must be stored under cover and kept dry

Adopt manufacturers storing and handling recommendations

Keep containers securely sealed and check for spills and leaks

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards

The following exposure standard has been established by The Australian Safety and Compensation Council; Crystalline Silica (Quartz): TWA = 0.1mg/m3 NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable.

Dust from old fired refractories is likely to be more hazardous than new materials

Additional hazard relates to dust generated by sawing, grinding cutting and trimming of solid material. Use of wet cutting and grinding will alleviate this problem.

The local concentration of material, quantity and conditions of use determine the type of personal protection equipment required, particularly in regard to respirators.

Engineering Controls

General exhaust is adequate under normal operating conditions.

Personal Protective Equipment

Face and Eyes: Safety glasses with side shields or chemical goggles as required

Skin Protection: Barrier cream suitable protective gloves

Protective footwear (laced steel toe capped boots)

Overalls

Respiratory Protection: Use respiratory protection when building or demolishing old refractory

structures.

If risk of over exposure exists wear suitable SAA approved dusk mask In confined spaces where there may be inadequate ventilation wear full

face air supplied breathing apparatus

The local concentration of material, quantity and conditions of use

determine the type of personal protection equipment required, particularly

in regard to respirators.

Thermal Hazards: N/A

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Off white power/water slurry

ODOUR Slight odour

ODOUR THRESHOLD

pH

N/A

MELTING/FREEZING POINT

FLASH POINT

N/A

FLAMMABILITY Not Flammable

VAPOUR PRESSURE N/A

SPECIFIC GRAVITY 2 minimum SOLUBILITY Immiscible DECOMPOSITION TEMPERATURE N/A

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SECTION 10 - STABILITY AND REACTIVITY

Reactivity Non-Reactive

Chemical Stability Mild reaction with alkalis
Conditions to Avoid Avoid contact with alkalis

Incompatible Materials N/A

Hazardous Decomposition

Products N/A

SECTION 11 - TOXILOGICAL INFORMATION

ACUTE TOXICITY

SKIN CORROSION/IRRITATION

SERIOUS EYE DAMAGE/IRRITATION

RESPIRATORY OR SKIN SENSITISATION

GERM CELL MUTAGENITY

Expected to be low toxicity

Causes skin irritation

Causes irritation to eyes

Not expected to be a sensitizer

Not expected to cause mutagenic

CARCINGENICTY suspected to be cacogenic

REPRODUCTIVE TOXICITYNot expected to cause reproductive problems **STOT-SINGLE EXPOSURE**Cause irritation to eyes, respiration and skin

STOT-REPEATED EXPOSURE Repeated inhalation may cause respiratory problems

Repeated eye contact may cause serious eye damage Repeated skin contact may cause serious skin damage

ASPIRATION HAZARD Irritation and respiratory difficulties may result

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Unknown, presumed low toxicity

Persistence/Degradability Product is expected to be persistent and have low degradability

Bioaccumulation Potential Not expected to bioaccumulate

Mobility in Soil Dust particles presumed collect in top soil, not expected to be mobile, not

expected to contaminate ground water

Other Adverse Effects No expected effects

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Process Consult State Land Management Authority for appropriate information

Bury residue in authorized landfill

Recycle containers where possible or dispose of in authorized landfill

SECTION 14 - TRANSPORT INFORMATION

Not Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Proper Shipping Name SILACOAT Z

Class Subsidiary Risk(s) UN Number Hazchem Pack Group Special Provision -

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SECTION 15 - REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Poisons Schedule number: N/A

Australian Inventory of Chemical Substances (AICS): Component Materials Listed

Dangerous good Initial Emergency Response Guide (SAA/SNZ HB76): N/A

SECTION 16 - ANY OTHER RELEVANT INFORMATION

Date of Preparation 22/06/2017

Revision 2

Revision Date 04/06/2019

Changes in this revision Minor changes including formatting

Key/Legend

AICS Australian Inventory of Chemical Substances

AS Australian Standards

ASCC Australian Safety and Compensation Council
CAS Chemical Abstracts Service (Registry Number)

cP centipoise

deg C (°C) Degrees Celsius

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which

causes the death of 50% (one half) of a group of test animals.

N/A Not Applicable

pH Potential of Hydrogen, a number between 0 and 14 that indicates if a chemical is an acid

or a base

PPE Personal Protective Equipment

ppm Parts per million

STEL Short Term Exposure Limit
STOT Specific Target Organ Toxicity

TOC Total organic carbon
TWA Time Weighted Average

UN United NationsWA Western Australia

Disclaimer

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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