



SECTION 1 - IDENTIFICATION OF PRODUCT AND SUPPLIER

PRODUCT IDENTIFIER **SILACAST 165 RFT**

OTHER NAMES Dense Refractory Castable with Rapid Fire Technology

PRODUCT CODE SMC165RFT/25

PHYSICAL DESCRIPTION Dark/Light grey granular powder premix can be slurred with water

USES Mix with water to form dense refractory castables to produce linings and or pre-cast shapes with high strength, resistance to abrasion and chemical attack. Installed by casting.

MANUFACTURER/IMPORTER

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EMERGENCY CONTACT 13 11 26 - Poisons Information Centre

SECTION 2 - HAZARD IDENTIFICATION

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	
Carcinogen, Category 2	H351: Suspected of causing cancer	

PRECAUTIONARY STATEMENTS

Prevention:	<p>P233: Keep container tightly closed.</p> <p>P260: Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P262: Do not get in eyes, on skin, or on clothing.</p> <p>P264: Wash hands/skin thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P281: Use personal protective equipment as required.</p> <p>P285: In case of inadequate ventilation wear respiratory protection.</p>
Response:	<p>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P315: Get immediate medical advice/attention.</p> <p>P335: Brush off loose particles from skin.</p> <p>P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/attention.</p> <p>P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337 + P313: If eye irritation persists: Get medical advice/attention.</p> <p>P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.</p>
Storage:	<p>P401: Store in multi-ply bags or heavy gauge plastic bags, ensure to check for leaks</p> <p>P402: Store in a dry place.</p> <p>P404: Store in a closed container.</p> <p>P422: Store contents under cover</p> <p>P402 + P404: Store in a dry place. Store in a closed container.</p>
Disposal:	<p>P501: Dispose of contents to land fill</p> <p>P501: Dispose of containers to land fill or recycle where possible</p>

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%)
Alumina Silicate Aggregate	12141-46-7	40-50
Aluminum Oxide Aggregate	1344-28-1	30-40
Calcium Alumina Cement	65977-16-2	20-30
Notes: Contains Iron Oxide, Titanium Oxide and Alkalis <1 %		

SECTION 4 – 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.
- 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.

Sila Australia SDS – SILACAST 165 RFT

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 suitable 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

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

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: -

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Dark/Light grey granular powder
ODOUR	Slight Odour
ODOUR THRESHOLD	N/A
pH	N/A
MELTING/FREEZING POINT	>1650°C
FLASH POINT	N/A
FLAMMABILITY	Not Flammable
VAPOUR PRESSURE	N/A
SPECIFIC GRAVITY	2.35-2.45
SOLUBILITY	Immiscible
DECOMPOSITION TEMPERATURE	N/A

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-Reactive
Chemical Stability	Stable
Conditions to Avoid	None known
Incompatible Materials	N/A
Hazardous Decomposition Products	N/A

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Expected to be low toxicity
SKIN CORROSION/IRRITATION	Causes skin irritation
SERIOUS EYE DAMAGE/IRRITATION	Causes irritation to eyes
RESPIRATORY OR SKIN SENSITISATION	Not expected to be a sensitizer
GERM CELL MUTAGENITY	Not expected to cause mutagenic
CARCINOGENICTY	Suspected to be cacogenic
REPRODUCTIVE TOXICITY	Not 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 bio accumulate
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
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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	SILACAST 165 RFT
Class	-
Subsidiary Risk(s)	-
UN Number	-
Hazchem	-
Pack Group	-
Special Provision	-

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	-
Revision Date	-
Changes in this revision	-

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 Nations
WA	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.