



## MATERIAL SAFETY DATA SHEET

Issue date: 11<sup>th</sup> August, 2009

---

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

---

**Product Name: SPECTREM 2**

Company: Tremco Pty Limited ABN 25 000 024 064  
Address: Unit 1, 2 Park Road, Rydalmere, New South Wales, 2116  
Contact Nos.: Telephone: (02) 9638 2755 Fax: (02) 9638 2955  
Emergency  
Telephone: 1800 224 512 7am to 5pm Monday to Friday inclusive  
Product Code: 215305 600ml Sausage  
315203 315ml Cartridge  
Recommended  
Use: Silicone Sealant (Neutral Cure)  
Manufacturer's Product  
Code: 947802 502  
Proper Shipping  
Name: None Allocated

---

### 2. HAZARDS IDENTIFICATION

---

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

Hazchem Code: None Allocated

Safety Phrases: S2 Keep out of the reach of children  
S23 Do not breathe vapour  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

#### **Emergency Overview**

Black, non-sag gunnable paste. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

#### **Acute Potential Health Effects/ Routes of Entry**

Inhalation : May cause slight irritation to the respiratory system.  
Eyes : Direct contact may cause moderate irritation.  
Ingestion : May cause irritation to the mouth, throat and stomach.  
Skin : May cause mild irritation.

#### **Aggravated Medical Conditions**

Pre-existing eye, skin, kidney and respiratory disorders may be aggravated by exposure.

#### **Chronic Health Effects**

Possible skin sensitization. As a by-product of curing up to 4% Methyl Ethyl Ketoxime (MEKO) may be released within product. Repeated and prolonged exposure to MEKO can cause allergic skin reaction and is a potential carcinogen (Group 2B) by IARC. It may adversely affect the blood, (methemoglobinemia and anemia). Carbon black is classified by IARC to be a known animal carcinogen and a

possible human carcinogen (Group 2B). Carbon black is encapsulated by resin and not expected to have adverse effects unless made airborne. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Organosilane may cause liver injury with fibrosis after repeated and prolonged overexposure. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

### **Target Organs**

Skin, Blood, Lung, Liver Kidney

---

### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

---

<b>Chemical Name:</b>	<b>CAS Number:</b>	<b>Proportion:</b>
Calcium Carbonate (Limestone)	1317-65-3	40.0-70.0%
Silicone Polymer	NJTSRN#51721300-5110P	40.0-70.0%
Polydimethylsiloxane, trimethyl endcap	63148-62-9	7.0-13.0%
Amorphous Silica	7631-86-9	3.0-7.0%
Organosilane	NJTSRN#51721300-5368P	1.0-5.0%
Carbon Black	1333-86-4	<1.0%
Crystalline Silica (Quartz) Silica Sand	14808-60-7	<1.0%

---

### **4. FIRST AID MEASURES**

---

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.

Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Centre or Physician immediately(Ph. 13 11 26 in all states).

First Aid Facilities : Eye wash and shower.

---

### **5. FIRE FIGHTING MEASURES**

---

Flash point : Not available  
Method : Not available

Burning rate : Non-flammable solid  
Lower explosion limit : Not available  
Upper explosion limit : Not available  
Autoignition temperature : Not available

Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion Products : Smoke and fumes. Carbon monoxide (CO) and Carbon Dioxide can form. Silicone Oxides and trace amounts of MEKO.

In certain fire conditions, traces of other toxic gases cannot be excluded e.g.  
Hydrogen cyanide (HCN)  
Isocyanates

Protective Equipment for Firefighters: Use accepted fire fighting techniques. Wear full fire fighting protective clothing including self-contained breathing apparatus (SCBA).

Fire & explosion conditions: This product not expected to ignite under normal conditions of use.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

Observe all local and national regulations.

**Person-related safety precautions:**

Use appropriate protective equipment. Avoid contact with material.

**Measures for environmental protection:**

Do not allow product to reach sewage system or any water courses.

**Measures for cleaning/collecting:**

Scrape up and transfer to appropriate container for disposal.

---

## 7. HANDLING & STORAGE

---

Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Do not use in confined or poorly

ventilated areas. Prevent inhalation of vapour, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Change soiled work clothes frequently. Clean hands thoroughly after handling. Store in sealed containers in a cool, dry, ventilated warehouse location.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protection equipment**

Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved respirator, as directed by the manufacturer, when the airborne contaminant level(s) exceed the exposure limits indicated on the MSDS.

Hand protection : Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.

Eye protection : Wear appropriate eye protection. Use safety glasses if eye contact is likely.

Skin and body protection : Prevent contact with shoes and clothing.

Protective measures : Use professional judgment in the selection, care, and use.

Engineering measures : General ventilation is sufficient.

**Exposure Limits**

Chemical Name	CAS Number	Regulation	Limit	Form
Calcium carbonate (Limestone)	1317-65-3	OSHA PEL	5 mg/m <sup>3</sup>	Respirable fraction
		OSHA PEL	15 mg/m <sup>3</sup>	Total dust
		ACGIH TWA	3 mg/m <sup>3</sup>	Respirable particles
		ACGIH TWA	10 mg/m <sup>3</sup>	Inhalable particles
		OSHA TWA	15 mg/m <sup>3</sup>	Total dust
		OSHA TWA	5 mg/m <sup>3</sup>	Respirable fraction
Amorphous silica	7631-86-9	ACGIH TWA	3 mg/m <sup>3</sup>	Respirable particles
		ACGIH TWA	10 mg/m <sup>3</sup>	Inhalable particles
		OSHA PEL	15 mg/m <sup>3</sup>	Total dust
		OSHA PEL	5 mg/m <sup>3</sup>	Respirable fraction
		OSHA TWA	0.8 mg/m <sup>3</sup>	
Carbon Black	1333-86-4	ACGIH TWA	3.5 mg/m <sup>3</sup>	
		OSHA PEL	3.5 mg/m <sup>3</sup>	
		OSHA TWA	15 mg/m <sup>3</sup>	Total dust
		OSHA TWA	5 mg/m <sup>3</sup>	Respirable fraction
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	ACGIH TWO	5 mg/m <sup>3</sup>	Respirable fraction
		OSHA TWA	0.1 mg/m <sup>3</sup>	Respirable
		OSHA TWA	0.3 mg/m <sup>3</sup>	Total dust
		OSHA PEL	15 mg/m <sup>3</sup>	Total dust
		OSHA PEL	55 mg/m <sup>3</sup>	Respirable fraction

**General protective and hygienic measures**

Avoid close or long term contact with the skin.  
Wash hands before breaks, at the end of work and before handling food.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Appearance:	Non-sag gunnable paste
Colour:	Black
Odour	Oxime
pH:	Not available
Boiling Point / Range(°C):	Not available
Melting Point / Range:	Not available
Flashpoint:	Not applicable
Solubility in Water:	Negligible
Vapour Density:	Heavier than air
Specific Gravity:	1.34
% Volatile Weight:	2%

---

## 10. STABILITY AND REACTIVITY

---

Substances to avoid:	Strong acids. Strong bases. Alcohols. Water or moisture and oxidizing agents.
Stability:	Material is stable under normal storage, handling, and use.
Hazardous polymerization:	Will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

---

Amorphous silica, CAS No. 7631-86-9  
Acute oral toxicity (LD=50 oral) 22,500 mg/kg (Rat)

---

## 12. ECOLOGICAL INFORMATION

---

No data available.

---

## 13. DISPOSAL CONSIDERATIONS

---

Ensure waste disposal conforms to local waste disposal regulations. Dispose of material at an approved disposal site or facility. Cured product may be disposed of as normal industrial waste.

---

## 14. TRANSPORT INFORMATION

---

This product is not classified as a dangerous good under the provisions of the "Australian Code for the Transport of Dangerous Goods by Road and Rail".

UN Number: None allocated  
Proper Shipping Name: Not regulated  
Packing Group: None allocated  
Hazchem Code: None allocated  
Special Precautions for User: None

---

## 15. REGULATORY INFORMATION

---

Safety Phrases listed in Section 2.

Not classified as Hazardous according to criteria of Worksafe Australia.

OSHA Hazardous Components :

Calcium Carbonate (Limestone)	1317-65-3
Amorphous silica	7631-86-9
Carbon Black	1333-86-4
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

OSHA Status:  
Considered hazardous based on the following criteria:

Irritant
Carcinogen

OSHA Flammability : Not Regulated

Regulatory VOC (less water and exempt solvent): 34 g/l  
VOC Method 310: 2 %

If used according to manufacturer's conditions this product is safe to use, however, persons known to be hypersensitive (asthma, chronic bronchitis) should not use this product.

---

## 16. OTHER INFORMATION

---

Hazardous Materials Information System:

Health	2
Flammability	1
Reactivity	0
PPE	

0 = Minimum  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

For Industrial Use only. Keep out of reach of children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use and storage of the product under every foreseeable condition.

Website: [www.tremco.com.au](http://www.tremco.com.au)

The information sourced for the preparation of this document was correct and complete at the time of writing or to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority.

### **Legend**

ACGIH - American Conference of Governmental Hygienists  
TLV - Threshold Limit Value  
IARC - International Agency for Research on Cancer  
TWA - Time Weighted Average  
OSHA - Occupational Safety and Health Administration  
STEL - Short Term Exposure Limit