

**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Generic Description: Silicone Compound PCI-Promatec  
Physical Form: Viscous Liquid & Dry Powders 11707 West Sam Houston Parkway South Suite K  
Color\*: Off-White/Beige/Gray Houston, TX 77031  
Odor: Some Odor 281-933-7222

\* (If supplied as separate components, this is the normal packaging; see sections 3 and 11 of this MSDS.)

**SECTION 2. HAZARDS IDENTIFICATION**

NFPA Profile\*\*: Health: 0,1\* Flammability 1,3\* Instability/Reactivity 0,1\*

\* (If supplied as separate components, this is the normal packaging; see sections 3 and 11 of this MSDS.)

\*\* (When supplied component premixed)

**SECTION 3. EFFECTS OF OVEREXPOSURE**Acute Effects:

Eye: Direct eye contact may cause temporary redness and discomfort.  
Metallic aggregate may cause irritation (conjunctivitis, retinae) and/or abrasion of the cornea.

Skin: No significant irritation expected from a single short-term exposure, when supplied premixed. When supplied as separate components avoid prolonged, repeated or excessive contact of the powders with skin.

Inhalation: No significant irritation expected from a single short-term exposure, when supplied premixed. Avoid prolonged, repeated or excessive inhalation of dry powders which may irritate respiratory tract, see below:

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects:

Skin: No known applicable information.

Inhalation: No known applicable information (premixed). For the dry powders, repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage. (siderosis), (When supplied as separate components). Also see below.

Oral: No known applicable information (premixed). Dry powders could induce gastric problems.

Signs and Symptoms of Overexposure:

Acute No known applicable information.

Chronic The metallic aggregate component, after repeated exposure of low level of dust to the eyes can produce irritation.

Medical Conditions Aggravated by Exposure:

No known applicable information (premixed). For the dry powders, varying degrees of respiratory irritation or lung damage (siderosis) may occur.

**SECTION 4. FIRST AID MEASURES**

- Eye:** Remove contact lenses if present, immediately flush with water, as needed. If irritation persists, seek medical attention.
- Skin:** No first aid should be needed, the dry powders may cause skin irritation; area may be flushed with water and a mild, non-abrasive soap may be used if available. If symptoms persist, contact a poison control center, emergency room or physician for treatment information
- Inhalation:** No first aid should be needed, however, if there is a gross inhalation of respirable dry powders, remove the person immediately to fresh air, If symptomatic, contact a poison control center, emergency room or physician for treatment information
- Oral:** No first aid should be needed, however, if a gross ingestion of the dry powders occurs, gently wipe or rinse the inside of the mouth with water. Sips of water can be given to a conscious person. If possible, have victim drink several glasses of water or milk. **DO NOT INDUCE VOMITING.** Contact a poison control center, emergency room or physician for treatment information.
- Comments:** Treat symptomatically.

**SECTION 5. FIRE FIGHTING MEASURES**

- Flash Point:** >214°F />101.1°C (Closed Cup). Liquid component, prior to curing; liquid state.
- Auto Ignition Temperature:** Not determined.
- Flammability Limits in Air:** Not determined
- Extinguishing Media:** For the premixed or already blended material, on large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire-exposed metal containers. (Prior to curing; liquid state.) For fires involving the dry powders, use a fog nozzle to spray water, see also Unusual Fire Hazards below.
- Fire Fighting Measures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep the fire exposed metal containers cool. (Prior to curing; liquid state.)
- Unusual Fire Hazards:** As with any finely granulated product (i.e. flour) a risk of fire is present should the material be dispersed in air and exposed to a source of ignition. Fine powder forms flammable and explosive mixtures in air.

Hazardous Decomposition Products:

Thermal breakdown of the liquid component of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: metal oxides, carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide, formaldehyde and quartz.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

## Containment/Clean up:

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8<sup>1,2</sup>. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. The user will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. When supplied as separate components for respirable metallic aggregate, vacuum spilled material and place into closable container for disposal. Do not dry sweep. Wear protective equipment if specified below.

Note 1: See Section 8 for personal Protective Equipment for spills.

Note 2: Substantially reduced when pre-blended material is supplied.

**SECTION 7. HANDLING AND STORAGE**

Use with adequate ventilation. Avoid contact of the dry powders with eyes, skin and clothing.

Product evolves minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build-up. Clogged container vents may increase pressure build-up. Keep container closed and store away from water or moisture.

Do not breathe dust (respirable metallic aggregate). Use adequate ventilation and appropriate dust collection. Keep airborne dust concentrations below PEL. Do not rely on your sight to determine if dust is in the air.

Dust from the metallic aggregate may be in the air without a visible dust cloud<sup>3</sup>. If dust cannot be kept below permissible limits, wear a respirator approved for dust when using, handling, storing or disposing of this product or bag. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty. See also control measures in Section 8.

**Precautions During Storage**

Store in a dry area. When supplied as separate components avoid breakage of bags or containers of dry powders. See also control measures in Section 8.

The OSHA Hazard Communication Standard, 29 CFR Sections 1910.1200 1915.1200 1917.28 1918.28, 1926.59 and 1928.21, and state and local worker or community “right-to-know” laws and regulations should be strictly followed. **WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS IN THE CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARDS AND THE REQUIRED OSHA PRECAUTIONS. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT THE OSHA PRECAUTIONS.**

Note 3: Substantially reduced when pre-blended material is supplied.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

There are no components with workplace exposure limits for pre-mixed material.

**Permissible Exposure Levels<sup>4</sup>:**

Material Identification			Exposure Guidelines		
Iron Respirable	CAS No. 7439-89-6	Percentage (by wt.) <50%	OSHA	ACGIH	NIOSH
			PEL	TLV	REL
			Not Available	10mg/m <sup>3</sup>	Not Available

Note 4: For the dry powders; exposure limits are time-weighted average (TWA) concentrations for 8 hr shift.

**Engineering Controls**

**Local Ventilation:** Recommended for pre-blended material. When mixing separate components, Use sufficient local exhaust to reduce the level of respirable dust to below the PEL during the blending of the separate components. See ACGIH “Industrial Ventilation, A Manual of Recommended Practice” (latest edition).

**General Ventilation:** Recommended.

**Personal Protective Equipment for Routine Handling**

<b>Eyes:</b>	Use proper protection – safety glasses as a minimum. If powder exposure to the eyes is likely, use tight fitting chemical safety goggles.
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Skin:	Washing at mealtime and at end of shift is adequate. For the dry powders, avoid repeated exposure to the skin.
Suitable Gloves:	No special protection needed for the blended material. For handling of the dry powders, gloves are recommended
Inhalation:	No respiratory protection should be needed, (pre-blended). For respirable dusts from metallic particulate, see below.
Suitable Respirator:	For separate components use NIOSH approved dust filter respirator for exposure above permissible exposure limits.

**Personal Protective Equipment for Spills**

Eyes:	Use proper protection – safety glasses as a minimum. If powder exposure to the eyes is likely, use tight fitting chemical safety goggles.
Skin:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Washing at mealtime and at end of shift is recommended as a minimum.
Inhalation /Suitable Respirator:	See above.
Precautionary Measures:	Avoid eye contact. Use reasonable care.

Comments: When heated to temperatures above 180°C (356°F) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit (PEL) for formaldehyde.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

The following is for the liquid component:

Physical Form:	Viscous Liquid
Color:	Beige/Off-White
Odor:	Some odor
Specific Gravity @ 25°C	1.33/1.33 (FC/RC)*
Viscosity:	2500/2000 cSt (FC/RC)*
Freezing/Melting Point:	Not determined
Boiling Point:	>170°C/>200°C (FC/RC)*
Vapor pressure @25°C:	Not determined
Vapor Density:	Not determined
Solubility In Water:	Not determined
pH:	Not determined
Volatile Content:	Not determined
Flash Point:	>214°F / 101.1°C (Closed Cup)
Auto Ignition Temperature	Not determined
Flammability Limits in Air	Not determined

\*FC= Fast Cure; RC = Regular Cure

When the material is supplied as separate components, additional components will be included and will have the following properties:

Appearance:	Powder
Color:	Gray
Odor:	None
Specific Gravity:	7.86
Bulk Density:	2.4 to 3.2 g/cm <sup>3</sup>
Melting /Freezing Point:	1535°C (2795°F)/ Not determined
Vapor pressure (mm Hg)	Not determined
Vapor Density (Air = 1):	Not determined
Solubility In Water:	Insoluble in water
Boiling Point:	Not determined
Evaporation Rate (Butyl Acetate =1):	Not determined

Note: The above information is not intended for use in preparing product specifications. Contact PCI-Promatec before writing specifications.

**SECTION 10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to avoid:	For the dry powders, avoid the formation of dust.
Incompatibility (Materials to Avoid):	None known.
Materials to avoid (When supplied as separate components):	Oxidizing material and reducing agents can cause a reaction. For the liquid component, water, alcohols, acidic or basic materials and many metals or metallic compounds, when in contact with the product, liberate flammable hydrogen gas, which can form explosive mixtures in air.
Hazardous Decomposition Products:	See Section 5.0

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Special hazard information on components**

No known applicable information for premixed; when supplied as separate components see Section 3.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution**

Complete information is not yet available.

**Environmental Effects**

Complete information is not yet available for premixed material.

**Fate and Effects in Waste Water treatment Plants**

Complete information is not yet available for premixed material.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as hazardous waste?

**Yes.**

Characteristic Waste:

Reactive: D003

For respirable metallic aggregate: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. Efforts should be made to minimize generation of airborne dust.

**SECTION 14. TRANSPORT INFORMATION**

**DOT Road Shipment Information (49 CFR 172.101)**

Not subject to DOT.

**Ocean Shipment (IMDG)**

Not subject to IMDG code.

**Air Shipment (IATA)**

Not subject to IATA regulations.

**SECTION 15. REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or are exempted from listing on the TSCA Inventory of Chemical Substances.

**EPA SARA Title III Chemical Listings**

**Section 302 Extremely Hazardous Substances:**

None

**Section 304 CERCLA Hazardous Substances:**

None

**Section 312 Hazard Class:**

Acute: No  
 Chronic: No  
 Fire: No  
 Pressure: No  
 Reactive: Yes

**Section 313 Toxic Chemicals**

None present or none present in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

**Supplemental International/State Compliance Information**

**Canadian Environmental Protection Act:**

Metallic aggregate listed on the Domestic Substances List and is exempt

**WHMIS Classification:** Not Regulated (Metallic aggregate)

**European Inventory Of Commercial Chemical Substances:**

Exempt from notification requirements. (Metallic aggregate).

**Australian Inventory of Chemical Substances:**

Metallic aggregate is not listed or is exempted from being listed.

**Japan METI/MOL:**

Metallic aggregate is not listed or is exempted from being listed.

**California**

Warning: This product contains the following chemicals(s) listed by the state of California under the safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known

**New Jersey:**

<u>CAS number</u>	<u>Wt %</u>	<u>Component Name</u>
68083-19-2	16.0 – 47.0	Dimethyl siloxane, dimethylvinyl-terminated
14808-60-7	16.0 – 47.0	Quartz
68037-59-2	1.0 – 7.0	Dimethyl, methylhydrogen siloxane

RTK: Iron powder: Sulfur alloyed

**Pennsylvania:**

<u>CAS number</u>	<u>Wt %</u>	<u>Component Name</u>
68083-19-2	16.0 – 47.0	Dimethyl siloxane, dimethylvinyl-terminated
14808-60-7	16.0 – 47.0	Quartz
68037-59-2	1.0 – 7.0	Dimethyl, methylhydrogen siloxane

RTK: Iron Powder: Sulfur alloyed

**Massachusetts:**

Massachusetts RTK: Iron Powder: Sulfur alloyed

<b>SECTION 16. OTHER INFORMATION</b>
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Prepared by: PCI-Promatec

These data are based on information supplied by the manufacturers of the base components. These data are offered in good faith. The manufacturer of the base components considers values shown herein to be typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate and/or adequate.