



# SAFETY DATA SHEET

## Section 1 – Identification

SUPPLIER:	Superior Adhesives & Tools	NOTE: Blank spaces are not permitted. If no relevant information is found for any given subheading within a section, the SDS shall clearly indicate that no applicable information is available.	
ADDRESS:	14000 Carlson Parkway Plymouth, MN 55441	Emergency Telephone Number (CHEMTREC)	(800) 424-9300
TELEPHONE:	888-398-6595	Telephone Number for Information	(888) 398-6595
Product Identifier (as used on Label, SDS and list)	Recommended use of the chemical and restrictions on use: This product consists of silica sand, finely ground Portland cement. This product is used to adhere approved tiles to approved substrates. Avoid dust formation. Do not breathe dust. Avoid contact with acids.		
<b>Pro Flex is available in white and grey.</b> Other means of identification: none			

## Section 2 – Hazard Identification

Acute inhalation toxicity	Category: 2	Signal Word: DANGER
Known or presumed human carcinogen	Category: 1A	Signal Word: DANGER
Skin irritation, Category	Category: 2	Signal Word: WARNING
Eye irritation, Category	Category: 2A	Signal Word: WARNING
Target Organ Toxicity	Category: 2	Signal Word: WARNING
Hazard(s) not otherwise classified (HNOC)	None known	None known



Hazard Statements: FATAL IF INHALED; CAUSES SERIOUS EYE IRRITATION; CAUSES SKIN IRRITATION; MAY CAUSE CANCER; MAY CAUSE DAMAGE TO ORGANS



Precautionary Statements:

PREVENTION: Do not breathe dusts; use only outdoors or in a well-ventilated area  
 Wash thoroughly after handling  
 Obtain special instructions before use  
 Do not eat, drink or smoke when using this product  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 In case of inadequate ventilation wear respiratory protection.



RESPONSE: If inhaled: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a poison control center or doctor  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Specific treatment is urgent. (See First Aid Measures)  
 If on skin: Wash with plenty of water. If skin or eye irritation occurs/persists: Get medical advice/attention  
 If exposed or concerned: Call a poison center/doctor.  
 Take off contaminated clothing and wash it before reuse

STORAGE: Store locked up in a well-ventilated place with container tightly closed.

DISPOSAL: Do not dispose of in compactors or any other trash bins where compression is possible. Dispose of per federal, state, and local regulations.

## Section 3 – Composition/Ingredients (\*= trade secret)

Chemical Name	Common Name and synonyms	CAS No.	Percentage
Portland Cement	Hydraulic cement binder	65997-15-1	30-40
Crystalline Silica	Silica sand, ground silica, quartz	14808-60-7	40-60
Other components below reportable levels.	Not applicable	Not applicable	1-35

### Section 4 – First Aid Measures

**INHALATION:** Remove to fresh air. Seek medical help if coughing or other symptoms do not subside. Inhalation of large amounts of Pro Flex requires immediate medical attention.

**SKIN CONTACT:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment in all cases of prolonged exposure to wet Pro Flex or prolonged wet skin exposure to dry Pro Flex .

**EYE CONTACT:** Immediately flush eyes thoroughly with water. Continue flushing for at least 15 minutes, including under lids, to remove all particles. See a physician immediately.

**INGESTION:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician or the Poison Control Center immediately.

**MOST IMPORTANT SYMPTOMS/EFFECTS:** Acute: May cause mild or severe irritation. Exposure to airborne dust may cause immediate or delayed irritation or inflammation.

Delayed: Prolonged exposure can cause severe skin damage in the form of caustic chemical burn. An allergic response is possible.

**IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT:** Emergency Medical Services/Poison Control Center

### Section 5 – Fire-Fighting Measures

**SUITABLE EXTINGUISHING MEDIA:** Pro Flex does not pose a fire hazard, however normal fires can be extinguished using water mist, CO<sub>2</sub>, or Dry Chemical (AB, BC, ABC) extinguishers

**SPECIAL FIRE-FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full-face mask and fire-fighter protective clothing when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

Pro Flex	
<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARDS</b>	<b>0</b>

NFPA Rating: Health: 3 Flammability: 0 Reactivity: 0

### Section 6 – Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin.

PROTECTIVE EQUIPMENT: In case of exposure to dust above the PEL, wear appropriate respiratory protection. If eye contact while using this product is anticipated, wear ANSI Z87 approved goggles or safety glasses. Wear chemical resistant gloves (such as nitrile or neoprene) and protective clothing to minimize skin contact.

EMERGENCY PROCEDURES: None

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Collect dry material using a scoop. Scrape up wet material and place in an appropriate container. Allow the material to dry before disposing. DO NOT attempt to wash Pro Flex down drains.

## Section 7 – Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Avoid dust formation. Do not breathe dust. Use adequate exhaust ventilation and dust collection. Keep Pro Flex dry until used. Normal temperatures and pressures do not affect the material. Promptly remove dusty clothing or clothing which is wet with Pro Flex and launder before reuse.

CONDITIONS FOR SAFE STORAGE INCLUDING INCOMPATIBILITIES: Wet Pro Flex Grey is alkaline. Avoid contact with acids.

## Section 8 – Exposure Controls/Personal Protection

Component	OSHA PEL; TWA (8-Hr TWA)	ACGIH TLV
Crystalline Silica	1.8 mg/m <sup>3</sup> (R)*	0.025 mg/m <sup>3</sup> (T)
Portland Cement	15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup> (T)
Titanium dioxide	15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup> (T)
Particulates Not Otherwise Regulated	15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)

(T) = Total particulate

(R) = Respirable fraction \*10/%SiO<sub>2</sub> + 2

APPROPRIATE ENGINEERING CONTROLS: Use sufficient local exhaust ventilation, or other engineering controls to maintain the level of respirable SiO<sub>2</sub> below the OSHA PEL. General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT: To avoid exposures to silica dust in excess of the OSHA PEL, consider wearing air-purifying respirators with HEPA filters or NIOSH-approved dust respirators. Wear proper protective clothing, e.g. long pants and long-sleeved shirts, to avoid contact with alkaline dust. Use ANSI-approved eye protection and chemical resistant gloves.

RESPIRATORY PROTECTION: If it is not possible to reduce airborne exposure levels to below the OSHA PEL with ventilation, wear a NIOSH-approved air-purifying respirator with HEPA filters or a NIOSH-approved dust respirator.

EYE/FACE PROTECTION: Under normal conditions, wear safety glasses with side shields or safety goggles that meet the ANSI Z87.1 standard. In extremely dusty conditions wear ANSI-approved unvented safety goggles. DO NOT wear contact lenses.

HAND PROTECTION: Wear chemical protective gloves resistant to alkaline or caustic materials. DO NOT rely on barrier creams; barrier creams should not be used in place of chemical-resistant gloves. Nitrile gloves are recommended.

PROTECTIVE CLOTHING: Wear long pants and long-sleeved shirts while working with this material. Consider wearing chemical protective clothing resistant to alkaline or caustic materials.

## Section 9 – Physical and Chemical Properties

APPEARANCE: Powder, color varies	ODOR: None
pH: 9 -11	MELTING PT/FREEZING PT: 3056°F (1680°C)
BOILING POINT: 3110°F (1710°C)	FLASH POINT: N/A
FLAMMABILITY: N/A	EVAPORATION RATE: N/A
VAPOR DENSITY: N/A	RELATIVE DENSITY: 2.61 g/cc
VAPOR PRESSURE: N/A	EXPLOSIVE LIMITS: N/A
PARTITION COEFFICIENT: n-OCTANOL/WATER: N/A	VISCOSITY: N/A
DECOMPOSITION TEMPERATURE: Calcium sulfate, 1340°C	SOLUBILITY IN WATER: Slight

## Section 10 – Stability and Reactivity

REACTIVITY: None
CHEMICAL STABILITY: Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS: Avoid mixing with acids
CONDITIONS TO AVOID: Releasing dust. Unintentional mixing with water
INCOMPATIBLE MATERIALS: Acids, ammonium salts and aluminum metal. Pro Flex will dissolve in hydrofluoric acid producing toxic and corrosive silicon tetrafluoride gas. Contact with acids may also produce carbon dioxide gas.
HAZARDOUS DECOMPOSITION PRODUCTS: Will not spontaneously occur.

## Section 11 – Toxicological Information

Routes of Entry: Inhalation: YES      Ingestion: YES      Eye: YES      Skin: YES
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: May cause mild or severe irritation. Prolonged exposure can cause severe skin damage in the form of caustic chemical burn. An allergic response is possible. Pro Flex may cause abrasion of the cornea.
IMMEDIATE AND DELAYED EFFECTS: Exposure to airborne dust may cause immediate or delayed irritation or inflammation. Small quantities of dust are not known to be harmful, however ill effects are possible if large quantities are consumed. Pro Flex should not be eaten.
CHRONIC EFFECTS FROM SHORT-TERM AND LONG-TERM EXPOSURE: May cause mild or severe irritation. Prolonged exposure can cause severe skin damage in the form of caustic chemical burn. An allergic response is possible. Silicosis. A major concern is inhalation of silicon dioxide. Chronic or Ordinary Silicosis (often referred to as Simple Silicosis) is the most common form of silicosis and can occur after many years of exposure to relatively low levels of airborne respirable crystalline silica dust. Simple silicosis is characterized by lung lesions (shown as radiographic opacities) less than 1 cm in diameter, primarily in the upper lung zones. Often, simple silicosis is not associated with symptoms, detectable changes in lung function or disability. Simple silicosis may be progressive and may develop into complicated silicosis or progressive massive fibrosis (PMF). Although there may be no symptoms associated with PMF, the symptoms, if present, are shortness of breath, wheezing, cough and sputum production. PMF may be associated with decreased lung function and may be disabling. Advanced complicated silicosis or PMF may result in heart disease secondary to the lung disease. Autoimmune diseases. Several studies have reported excess cases of several autoimmune disorders – scleroderma, systemic lupus erythematosus, rheumatoid arthritis – among silica-exposed workers.
LC50/LD50: Oral LD50, rat: Not determined Oral LD50, rabbit: Not determined Inhalation LC50, mouse: Not determined Dermal LD50, rat: Not determined
Carcinogenicity: YES. The International Agency for Research on Cancer (IARC) concluded that there was “sufficient evidence” in humans for the carcinogenicity of crystalline silica (Group 1) in the forms of quartz or cristobalite from occupational sources. The overall IARC evaluation was that “crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). The IARC evaluation noted that carcinogenicity was not detected in all industrial circumstances. The National Toxicology Program (NTP) classifies respirable crystalline silica as Known to be a Human Carcinogen.

## Section 12 – Ecological Information (Non-mandatory)

ECOTOXICITY: No recognized unusual toxicity to plants or animals	BIO ACCUMULATIVE POTENTIAL: None	OTHER ADVERSE EFFECTS (such as hazardous to the ozone layer): None known
PERSISTENCE AND DEGRADABILITY: Stable under normal conditions	MOBILITY IN SOIL: Minimal to low	

### Section 13 – Disposal Considerations (Non-mandatory)

WASTE DISPOSAL OF SUBSTANCE: Do not discharge into waterways, drains, or sewer systems.

CONTAINER DISPOSAL: Dispose of in accordance with federal, state and local regulations.

RCRA: None listed

### Section 14 – Transport Information (Non-mandatory)

#### DOT, IATA, IMO/IMDG SHIPPING INFORMATION

UN Identification Number: N/A	DOT Shipping Name: N/a
Hazard Class: N/A	IMDG-P.S.N.: N/A
IATA-P.S.N.: N/A	IMDG-Class: N/A
IATA-CLASS: N/A	IMDG-Marine Pollutant: No
IATA-Packing Group: N/A	IMDG-Packing Group: N/A

### Section 15 – Regulatory Information (Non-mandatory)

U.S. SARA REPORTING REQUIREMENTS: The components of this mixture are not subject to the reporting requirements of Sections 302, 304 and 313 of Title II of the Superfund Amendments and Reauthorization Act.

SARA 311/312: Immediate and Delayed Health effects; Yes      Fire Hazard; No      Pressure; No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: Crystalline silica (quartz), CAS# 14808-60-7 is listed on the TSCA inventory

TSCA SIGNIFICANT NEW USE RULE: None of the chemicals in this mixture have a SNUR under TSCA.

CLEAN AIR ACT: This material does not contain any hazardous air pollutants  
This material does not contain any Class 1 Ozone depletors  
This material does not contain any Class 2 Ozone depletors

CLEAN WATER ACT: None of the chemicals in this mixture are listed as Hazardous Substances under the CWA  
None of the chemicals in this mixture are listed as Priority Pollutants under the CWA  
None of the chemicals in this mixture are listed as Toxic Pollutants under the CWA

OSHA: None of the chemicals in this mixture are considered highly hazardous by OSHA

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains a chemical, crystalline silica (airborne particles of respirable size), classified as a substance known to the state of California to be a carcinogen.

### Section 15 – Regulatory Information (Non-mandatory) (cont')

California No Significant Risk Level: None of the chemicals in this product are listed.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 ug for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**OTHER STATE SPECIFIC REGULATIONS:**

Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is “toxic” for purposes of the Massachusetts Toxic Use Reduction Act.

Massachusetts Right to Know Act: Silica, crystalline – quartz, iron oxide, calcium sulfate and magnesium oxide are all listed on the RTK list

Pennsylvania Worker and Community Right to Know Act: Quartz is a hazardous substance under the Act but it is not a special hazardous substance or an environmental hazardous substance.

New Jersey Worker and Community Right to Know Act: Silica, crystalline – quartz, iron oxide, calcium sulfate, magnesium oxide, limestone and calcium oxide are all listed on the RTK list.

## Section 16 – Other Information

PREPARED BY: Bryan Cleavenger                      DATE PREPARED: February 10, 2015                      LAST UPDATED: November 27, 2018  
EMAIL ADDRESS: Bryan@Cleavengercompliance.com

39.624	Yes. Training under the OSHA HazCom GHS requirements (29 CFR 1910.1200) must be completed upon initial assignment for new employees.
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INTENDED USE OF THIS PRODUCT:	This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.
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