

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **SILFLO 230**
Product Code: 21
MSDS Manufacturer Number: 21
Product Use/Restriction:
Manufacturer Name: Silpro LLC
Address: 2 New England Way
Ayer, MA 01432-1514
General Phone Number: 978-772-4444
General Fax Number: 978-772-7456
Emergency Phone Number: 800-535-5053

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Calcium Sulfate	No data	1 - 5 by weight	
Di-Calcium Silicate	10034-77-2	5 - 10 by weight	
Tri-Calcium Aluminate	12042-78-3	1 - 5 by weight	
Tetra-Calcium-Alumino-Ferrite	12068-35-8	1 - 5 by weight	
Tri-Calcium Silicate	12168-85-3	5 - 10 by weight	
Calcium Carbonate	1317-65-3	5 - 10 by weight	
Gypsum	13397-24-5	1 - 5 by weight	
Wollastonite	13983-17-0	1 - 5 by weight	
Crystalline silica (quartz)	14808-60-7	10 - 30 by weight	
Plaster of Paris	26499-65-0	1 - 5 by weight	
SiO2 Silica, fused	60676-86-0	10 - 30 by weight	
Fused Calcium Aluminate (Nuisance Dust)	65997-16-2	5 - 10 by weight	
Polyvinyl Alcohol	9002-89-5	0 - 0.2 by weight	

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: Irritant

Potential Health Effects:

Eye: May cause irritation, burns and permanent tissue damage.

Skin: May cause irritation, dry skin, redness, discomfort or burns.

Inhalation: Prolonged or repeated inhalation may cause lung damage.

Ingestion: May cause irritation. Ingesting large amounts may cause injury.

Chronic Health Effects: Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs, increased risk of tuberculosis, increased incidence of chronic kidney disease and end-stage renal disease, scleroderma and other connective tissue disorders. Silicosis may be progressive; it may lead to disability and death.

Signs/Symptoms: Product is alkali when wet, excessive and prolonged exposure can cause severe irritation, burns and permanent tissue damage

Aggravation of Pre-Existing Conditions: May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: No Data

Extinguishing Media: In the event of a fire involving this material, alone or in combination with other materials, use dry powder or carbon dioxide extinguishers. Do not use water.

Protective Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Use proper personal protective equipment as listed in section 8.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Spill Cleanup Measures: Vacuum or sweep up material and place in a disposal container.

Methods for containment: Vacuum or sweep up material and place in a disposal container.

Methods for cleanup: Vacuum or sweep up material and place in a disposal container.

SECTION 7 - HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing dust or vapor and contact with eyes. Avoid prolonged or repeated contact with skin.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.

Special Handling Procedures: Material is alkaline when mixed with water. Use precaution and proper protective equipment

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust, vapor or mist.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.

Respiratory Protection: A NIOSH approved air-purifying respirator with a combination cartridge or canister for dust and organic vapors may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

General Hygiene Considerations: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust, vapor or mist.

EXPOSURE GUIDELINES

Calcium Carbonate :

Guideline Type: OSHA PEL-TWA
Guideline Info: 5 mg/m3 Respirable

Gypsum :

Guideline Type: OSHA PEL-TWA
Guideline Info: 5 mg/m3 Respirable

Plaster of Paris :

Guideline Type: OSHA PEL-TWA
Guideline Info: 5 mg/m3 Respirable

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	solid or powder
Color:	Gray
Odor:	No odor
Boiling Point:	> 1832 °F (>1000 °C)
Melting Point:	No data
Density:	No data.
Solubility:	Slight, 0.1 to 1.0% in water
Vapor Density:	No data
Vapor Pressure:	None
pH:	No data
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	No Data

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Special Decomposition Products:	None

SECTION 11 - TOXICOLOGICAL INFORMATION

Calcium Carbonate :

Eye:	No data.
Skin:	No data.
Inhalation:	No data.
Ingestion:	No data.

Gypsum :

Eye:	No data.
Skin:	No data.
Inhalation:	No data.
Ingestion:	No data.

Wollastonite :

Eye:	No data.
Skin:	No data.
Inhalation:	No data.
Ingestion:	No data.

Carcinogenicity: IARC: Group 3: Unclassifiable as to carcinogenicity to humans

Crystalline silica (quartz) :

Eye:	No data.
Skin:	No data.
Inhalation:	Inhalation - rat TCLo: 200 mg/kg; Lungs, Thorax, or Respiration - Fibrosis, focal (pneumoconiosis) Lungs, Thorax, or Respiration - Other changes Nutritional and Gross Metabolic - Changes in iron
Ingestion:	Oral - rat TDLo: 120 gm/kg; Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes
Carcinogenicity:	IARC: Group 1: Carcinogenic to humans. NTP: Reasonably anticipated to be a human carcinogen

Plaster of Paris :

Eye:	No data.
Skin:	No data.
Inhalation:	No data.
Ingestion:	No data.

SiO2 Silica, fused :

Eye:	No data.
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Skin:	No data.
Inhalation:	No data.
Ingestion:	No data.
<u>Polyvinyl Alcohol :</u>	
Eye:	No data.
Skin:	No data.
Inhalation:	No data.
Ingestion:	Oral - rat LD50: 23854 mg/kg; Behavioral - Muscle weakness Gastrointestinal - Hypermotility, diarrhea Liver - Other changes Oral - mouse LD50: 14270 mg/kg; Behavioral - Muscle weakness Gastrointestinal - Hypermotility, diarrhea Liver - Other changes
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No product ecological data.
Environmental Fate:	No product ecological data.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
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SECTION 14 - TRANSPORT INFORMATION

DOT Hazard Class:	Not regulated
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SECTION 15 - REGULATORY INFORMATION

<u>Di-Calcium Silicate :</u>	
TSCA Inventory Status:	Listed.
Canada DSL:	Listed
<u>Tri-Calcium Aluminate :</u>	
TSCA Inventory Status:	Listed.
Canada DSL:	Listed
<u>Tetra-Calcium-Alumino-Ferrite :</u>	
TSCA Inventory Status:	Not listed.
Canada DSL:	Listed
<u>Tri-Calcium Silicate :</u>	
TSCA Inventory Status:	Listed.
Canada DSL:	Listed
<u>Calcium Carbonate :</u>	
TSCA Inventory Status:	Listed.
Canada DSL:	Listed
<u>Gypsum :</u>	
TSCA Inventory Status:	Not listed.
Canada DSL:	Listed
<u>Wollastonite :</u>	
TSCA Inventory Status:	Not listed.
Canada DSL:	Listed
<u>Crystalline silica (quartz) :</u>	
TSCA Inventory Status:	Listed.
Canada DSL:	Listed
<u>Plaster of Paris :</u>	
TSCA Inventory Status:	Not listed.
Canada DSL:	Listed
<u>SiO2 Silica, fused :</u>	

TSCA Inventory Status: Listed.

Canada DSL: Listed

Fused Calcium Aluminate (Nuisance Dust) :

TSCA Inventory Status: Listed.

Canada DSL: Listed

Polyvinyl Alcohol :

TSCA Inventory Status: Listed.

Canada DSL: Listed

SECTION 16 - ADDITIONAL INFORMATION

MSDS Author: ""Actio Corporation""

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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