

MATERIAL SAFETY DATA SHEET

Section 1: Identification

Product Name: MuddPro™

Company: Pared Solutions, LLC

In an emergency call 911.

For information about this SDS, use this contact phone#: +1 (844) Muddpro 683-3776

Section 2: Hazard(s) Identification

Hazard Classification:

- Specific Target Organ Toxicity (Repeated Exposure) - Category 1
- Not Hazardous Substance, Not Dangerous Goods
- Not Hazardous

Signal Word(s):

- Danger

Hazard Statements:

- May cause damage to organs through prolonged or repeated exposure if inhaled

NFPA Diamond Rating:



Precautionary Statements:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves, eye or face protection, construction mask and protective clothing.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.

Description of other hazards:

- Obtain special instructions before use.

--

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	
Na ₂ SiO ₃ / Na ₂ O / CaO	Glass Oxide	65997-17-3	
Fe ₃ Al ₂ (SiO ₄) ₃	Almandine	1302-62-1	
Mg ₃ Al ₂ (SiO ₄) ₃	Pyrope Garnet	1302-62-1	
CaSiO ₃	Wollastonite	13983-17-0	
SiO ₂	Quartz	14808-60-7	
H ₃ N	Acrylic Polymer (may contain Ammonia)	7664-41-7	

Section 4: First-Aid Measures

After skin contact:

- Wash skin with cool water and thoroughly pH-neutral with soap or a mild detergent and water. Seek medical attention if irritation develops.

After eye contact:

- Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

After inhalation:

- Move to fresh air. If respiratory distress develops, seek medical attention.

After ingestion:

- Rinse mouth with water. Do not induce vomiting. Seek medical attention if significant quantities have been ingested or symptoms occur. If person is unconscious do not give anything by mouth.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Does not apply

Special protective equipment for firefighters: Does not apply

*No specific fire or explosion hazard. Product is not flammable and does not support fire.

Section 6: Accidental Release Measures

Personal precautions:

- Avoid dust generation. Wear appropriate personal protective equipment.

Measures for environmental protection:

- Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor.

Measures for cleaning/collecting:

- Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container.
- Absorb spillage using sand, earth, or a suitable absorbent material, then sweep up and place into waste containers; thoroughly wash the spillage area with water, ensuring that wash water does not enter surface drains. Polymer can be separated from water by adding alum or ferric chloride, and disposal should follow local, state, or national regulations.

Note: Spilled emulsion is very slippery, so exercise caution to prevent falls. Remove saturated clothing immediately and wash any skin areas that contacted the spill with soap and water.

Section 7: Handling and Storage

Storage Temperature:

- 40 – 100°F

Handling:

- Avoid extreme temperatures. Protect from freezing. This material should not be spilled, discharged, or flushed into sewers or public waterways. Avoid dust generation. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Storage:

- Store in a dry, cool, well-ventilated area away from incompatible materials. Keep container tightly closed and sealed until ready for use.

Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Na ₂ SiO ₃ / Na ₂ O / CaO	5 mg/m ³	15 mg/m ³	2 mg/m ³	10 mg/ m ³
Fe ₃ Al ₂ (SiO ₄) ₃	5 mg/m ³	15 mg/m ³	0.025 mg/m ³	0.05 mg/ m ³
Mg ₃ Al ₂ (SiO ₄) ₃	5 mg/m ³	15 mg/m ³	0.025 mg/m ³	0.05 mg/ m ³
CaSiO ₃	5 mg/m ³	15 mg/m ³	0.025 mg/m ³	0.05 mg/ m ³
SiO ₂	0.025 mg/m ³	0.05 mg/m ³	0.025 mg/m ³	0.05 mg/ m ³
H ₃ N	25 mg/m ³	35 mg/m ³	20 mg/m ³	14 mg/m ³

General protective and hygienic measures:

- **Protective Clothing:** Wear appropriate protective clothing, including gloves and eye/face protection, to prevent skin and eye contact with the product. Remove contaminated clothing and protective equipment before entering eating areas.
- **Housekeeping:** Regularly clean work areas to minimize dust accumulation. Use wet methods or HEPA-filtered vacuum systems for cleanup. Avoid dry sweeping to prevent dust dispersal.
- **Training:** Ensure that workers are trained on the potential hazards and safe handling practices for the materials they are working with.
- **Emergency Equipment:** Ensure that eyewash stations and safety showers are available and accessible in areas where the product is used.
- **Spill Response:** In case of a spill, avoid creating dust and follow proper spill containment and cleanup procedures using appropriate personal protective equipment.

Breathing equipment:

- Use a properly fitted particulate filter respirator.

Protection of hands:

- Use adequate hand protection such as heavy-duty leather gloves.

Eye protection:

- Use safety glasses with side-shields or splash goggles.

Section 9: Physical and Chemical Properties

Form: White clear spherical granules and powder (milky white when solution is mixed as liquid)

Odor: Odorless

Odor threshold: Negligible ammonia odor when entire solution is mixed as liquid

pH: 9.5-10

Melting point/melting range: Softens above 600°C / melts around 1250°C and 1315°C as powder.
When mixed with liquid 32°F

Boiling point/boiling range: No distinct boiling temperature; decomposes at high temperatures as a powder. When solution is mixed, ~100°C/212°F

Flash point: Does not apply

Evaporation rate: No evaporation rate

Flammability: Not flammable

Upper/lower flammability or explosive limits: Not applicable

Auto ignition temperature: Not applicable

Danger of explosion: Not applicable

Vapor pressure: Negligible

Vapor density: Not applicable

Relative density: 3.9 – 4.1

Solubility in/Miscibility with water: Powder is Insoluble / Mix may be diluted

Section 10: Stability and Reactivity

Reactivity: Hydrofluoric acid as it may react with silicates

Chemical stability: Stable under normal conditions of storage and use.

Conditions to avoid: High temperatures, poor ventilation which can lead to dust accumulation, mechanical impact that may create dust, moisture until ready to mix and contact with strong acids or bases as they might react to the calcium silicate. Temperatures 40°F (liquid form mixed solution) may damage solution.

Incompatible materials: Strong bases may dissolve Glass oxide components.

Hazardous decomposition products: No hazardous decomposition products are expected under normal conditions. At high temperatures, may (some components) may soften or melt and others may decompose to produce calcium oxide (CaO) and silicon dioxide (SiO₂).

Section 11: Toxicological Information

Acute toxicity: Generally non-toxic.

Potential routes of exposure/potential health effects:

Skin: Not a primary irritant. Prolonged contact may cause mild irritation.

Eye: Not a primary irritant. Dust may cause mechanical irritation.

Inhalation: Inhalation of dust may cause respiratory irritation. Prolonged exposure may lead to lung damage.

Ingestion: Unlikely to be toxic. May cause abdominal/gastrointestinal discomfort if ingested in large quantities.

Mutagenic effects: Not classified as having conclusive mutagenic effects.

Reproductive toxicity: No evidence of reproductive toxicity based on available data.

Sensitization: No evidence of sensitization effects based on available data.

Target organs:

- **Lungs:** Chronic exposure can lead to lung diseases such as silicosis and other respiratory conditions.
- **Skin Contact:** Redness, itching, and mild irritation.
- **Eye Contact:** Redness, watering, and irritation.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Not available.

Mobility: The product is insoluble in water and has low mobility in the environment. It is expected to remain in the location where it is deposited and not migrate significantly through soil or water.

Biodegradation: This product is inorganic and not subject to biodegradation. It is chemically stable and will persist in the environment in the powder form. When mixed as a liquid solution, Ingress to waterways may cause persistent milky turbidity.

Bioaccumulation: This product is inorganic and not subject to bioaccumulation. It does not interact with biological systems in a way that would lead to accumulation.

Section 13: Disposal Considerations (non-mandatory)

General:

- Dispose of in accordance with local, regional, national, and international regulations. Avoid dispersal of spilled material and runoff.
- When mixed a liquid form solution for large quantities, place in settling pond and add ferric chloride and lime. Decant water. Dispose of solids in landfill. Emulsion can be incinerated directly under appropriate conditions. Disposal should be in accordance with local, state or national legislation. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302).

Specific:

- **Avoid Dust Generation:** When handling and disposing of the product, avoid the generation of dust. Use wet methods or HEPA-filtered vacuum systems for cleanup.
- **Prevent Environmental Contamination:** Prevent the product from entering watercourses, drains, and sewers. Notify the relevant authorities if the product has caused environmental pollution.
- **Waste Classification:** Classify waste according to local regulations. Consult local, regional, or national authorities for further guidance on waste classification and disposal requirements.
- **Personal Protective Equipment:** Ensure that personnel handling waste wear appropriate personal protective equipment (PPE) to prevent exposure to dust and other hazards.

Section 14: Transport Information (non-mandatory)

Not regulated under DOT, TDG, ADR/RID, IMDG, or IATA.

Section 15: Regulatory Information (non-mandatory)

State Regulations

- California Prop. 65: Contains crystalline silica.

Canadian Environmental Protection Act

- Not listed

Canadian WHMIS

- Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

Section 16: Other Information

SDS date of preparation/update: 10/27/2024