

## Safety Data Sheet



### Apex Multi

Safety Data Sheet dated: **18/03/2025 - Version 1**

## SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1. Product Identifier

- **Mixture Identification:**
  - **Trade Name:** Apex Multi
  - **Trade Code:** N/A

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

- **Recommended Use:** Flooring Underlayment (Portland cement-based)
- **Uses Advised Against:** Any use other than the recommended use

### 1.3. Details of the Supplier of the Safety Data Sheet

- **Manufacturer:**  
**Apex Minerals LLC**  
550w, Main Street, Boonton, New Jersey 07005
  - **Phone:** +1(201) 2545491
  - **Website:** [www.apexminerals.com](http://www.apexminerals.com)
  - **Responsible Contact:** [padraic.mcgrath@apexminerals.com](mailto:padraic.mcgrath@apexminerals.com)

### 1.4. Emergency Telephone Number

- Call **911** or or a poison control center

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## SECTION 2: Hazards Identification

## 2.1. Classification of the Substance or Mixture

According to OSHA Hazard Communication Standard (29 CFR 1910.1200):

- Skin Irritation (Category 2)
- Eye Damage (Category 1)
- Skin Sensitization (Category 1B)
- Specific Target Organ Toxicity – Single Exposure (Category 3 – Respiratory Irritation)

## 2.2. Label Elements

**Signal Words:** Danger

**Pictograms**



**Hazard Statements:**

- **H315** – Causes skin irritation.
- **H317** – May cause an allergic skin reaction.
- **H318** – Causes serious eye damage.
- **H335** – May cause respiratory irritation.

**Precautionary Statements:**

- **P261** – Avoid breathing dust.
- **P264** – Wash hands thoroughly after handling.
- **P280** – Wear protective gloves/clothing and eye/face protection.
- **P305+P351+P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- **P312** – Call a POISON CENTER if you feel unwell.
- **P333+P313** – If skin irritation or rash occurs: Get medical advice/attention.

- **Contains:** Portland cement, Cr(VI) < 2 ppm

**Special Provisions According to Annex XVII of REACH:** None.

### 2.3. Other Hazards

- No **PBT**, **vPvB**, or **endocrine disruptor** substances present at  $\geq 0.1\%$ .
  - **Other Hazards:**
    - Portland cement can cause skin irritation and burns when mixed with moisture.
    - Crystalline silica exposure may cause cancer (Category 1A) when inhaled over prolonged periods.
    - No PBT, vPvB, or endocrine-disrupting substances present.
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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

- **Not Relevant**

### 3.2. Mixtures

- **Mixture Identification:** Apex Multi

#### Hazardous Components:

Chemical Name	CAS Number	% (w/w)	Classification (OSHA)
Portland cement	65997-15-1	45 - 75	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1B, STOT SE 3 (H335)
Crystalline Silica	14808-60-7	Trace	Carcinogen 1A (Inhalation)

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## SECTION 4: First Aid Measures

### 4.1. Description of First Aid Measures

- **Skin Contact:**
  - Immediately remove contaminated clothing.
  - Wash affected areas with **plenty of water and soap**.

- Seek **immediate medical attention**.
- **Eye Contact:**
  - Rinse with **plenty of water**, keeping eyelids open.
  - Seek **immediate ophthalmological attention**.
- **Ingestion:**
  - Do not induce vomiting.
  - Seek **immediate medical attention** and show the SDS.
- **Inhalation:**
  - Seek **immediate medical attention** and provide packaging/label information.

#### **4.2. Most Important Symptoms and Effects (Acute and Delayed)**

- Acute: Severe eye irritation and damage, respiratory irritation, skin irritation, and allergic reactions.
- Delayed: Respiratory sensitization, prolonged exposure to respirable crystalline silica may cause cancer.

#### **4.3. Indication of Immediate Medical Attention and Special Treatment Needed**

- Immediate medical attention is required for eye contact.
  - Persistent skin irritation should receive medical attention.
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### **SECTION 5: Firefighting Measures**

#### **5.1. Extinguishing Media**

- **Suitable Media:** Water, Carbon dioxide (CO<sub>2</sub>).
- **Unsuitable Media:** None in particular.

#### **5.2. Special Hazards Arising from the Substance or Mixture**

- Avoid inhalation of **explosion/combustion gases**.

### 5.3. Advice for Firefighters

- Use **suitable breathing apparatus**.
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## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

- Avoid dust formation. Use personal protective equipment as required.

### 6.2. Environmental Precautions

- Avoid uncontrolled release into the environment.

### 6.3. Methods and Material for Containment and Cleaning Up

- Collect mechanically and avoid creating dust. Dispose of in accordance with local, state, and federal regulations.

### 6.4. Reference to Other Sections

- See Sections 8 and 13 for protective measures and disposal.
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## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling

- Avoid **skin/eye contact and inhalation of vapors/mists**.
- Ensure **local ventilation**.
- Do not reuse **empty containers** without cleaning.
- **Change contaminated clothing** before entering eating areas.
- Do not **eat/drink** while handling.

### 7.2. Conditions for Safe Storage, Including Incompatibilities

- Store **away from food, drink, and feed**.
- **Incompatible Materials:** None in particular.

- Store in **adequately ventilated** premises.

### 7.3. Specific End Use(s)

- Flooring Underlayment.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control Parameters

Exposure limits for individual components:

Component	OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )	NIOSH REL(mg/m <sup>3</sup> )
Portland cement	15 (T); 5 (I)	1 (I)	10 (T); 5 (I)
Calcium carbonate (limestone)	15 (T); 5 (I)	10 (I)	10 (T); 5 (I)
Calcium sulfate (gypsum)	15 (T); 5 (I)	10 (I)	10 (T); 5 (I)
Crystalline silica (as quartz)	0.05 (I)	0.025 (I)	0.05 (I)
Calcium oxide (quicklime)	5	2	2
Magnesium oxide (as magnesia)	15	10 (I)	Not established
Sodium sulfate	15 (T); 5 (I)	10 (I)	10 (T); 5 (I)
Potassium sulfate	15 (T); 5 (I)	10 (I)	10 (T); 5 (I)
Nuisance dust (PNOC)	15 (T); 5 (R)	10 (T); 3 (R)	Not established
T = total dust, R = respirable fraction, I = inhalable aerosol.			

#### Additional Notes:

- A4 - Not Classifiable as a Human Carcinogen; pulmonary function; respiratory symptoms; asthma.
- **Exposure limits:**
  - 5 mg/m<sup>3</sup> TWA (containing <1% of free silica, respirable dust).
  - 10 mg/m<sup>3</sup> TWA (containing <1% of free silica, total dust).

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### 8.2. Exposure Controls

- **Engineering Controls:**
- Provide adequate ventilation to maintain exposure levels below applicable limits.
- Use local exhaust ventilation where dust is generated.

**Personal Protective Equipment (PPE):**

- **Eye Protection:**

Wear safety goggles or face shield (ANSI Z87.1 or EN166).

- **Skin Protection:**

Wear protective gloves (e.g., nitrile, PVC) and protective clothing.

- **Respiratory Protection:**

Use NIOSH-approved dust masks or respirators if permissible exposure limits are exceeded.

- **Hygienic Measures:**

Wash hands and face thoroughly after handling.

Avoid eating, drinking, or smoking while working with this product.

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**SECTION 9: Physical and Chemical Properties****9.1. Information on Basic Physical and Chemical Properties**

- **Physical State:** Solid
- **Appearance:** Powder
- **Color:** Grey
- **Odor:** Cement-like
- **Melting Point / Freezing Point:** Not available
- **Initial Boiling Point and Boiling Range:** Not available
- **Flammability:** N.A.
- **Upper/Lower Flammability or Explosive Limits:** Not available
- **Flash Point:** Not available
- **Auto-Ignition Temperature:** Not available
- **Decomposition Temperature:** Not available
- **pH:** Not available

- **Viscosity:** Not available
- **Kinematic Viscosity:** Not available
- **Solubility in Water:** Partly soluble
- **Solubility in Oil:** Insoluble
- **Partition Coefficient (n-Octanol/Water):** Not available
- **Vapor Pressure:** Not available
- **Relative Density:** Not available
- **Vapor Density:** Not available
- **Particle Characteristics:**
  - **Particle Size:** Not available

## 9.2. Other Information

- **Miscibility:** Not available
- **Conductivity:** Not available
- **Explosive Properties:** No other relevant information

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical Stability

Stable under normal conditions.

### 10.3. Possibility of Hazardous Reactions

None.

### 10.4. Conditions to Avoid

Stable under normal conditions.

### 10.5. Incompatible Materials

None in particular.

### 10.6. Hazardous Decomposition Products

None.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

Portland cement is a mixture of materials consisting of calcium silicates and calcium aluminates, calcium carbonate, crystalline silica, and other additives. May also contain small amounts of calcium oxide (a.k.a. quicklime) (CaO), magnesium oxide (MgO), sodium sulfate (Na<sub>2</sub>SO<sub>4</sub>), and potassium sulfate (K<sub>2</sub>SO<sub>4</sub>).

#### Toxicological Information of the Mixture:

- **a) Acute Toxicity**  
Not classified. Based on available data, the classification criteria are not met.
- **b) Skin Corrosion/Irritation**  
The product is classified: *Skin Irrit. 2 (H315)*
- **c) Serious Eye Damage/Irritation**  
The product is classified: *Eye Dam. 1 (H318)*
- **d) Respiratory or Skin Sensitisation**  
The product is classified: *Skin Sens. 1B (H317)*
- **e) Germ Cell Mutagenicity**  
Not classified. Based on available data, the classification criteria are not met.
- **f) Carcinogenicity**  
Not classified. Based on available data, the classification criteria are not met.
- **g) Reproductive Toxicity**  
Not classified. Based on available data, the classification criteria are not met.
- **h) STOT-Single Exposure**  
The product is classified: *STOT SE 3 (H335)*
- **i) STOT-Repeated Exposure**  
Not classified. Based on available data, the classification criteria are not met.
- **j) Aspiration Hazard**  
Not classified. Based on available data, the classification criteria are not met.

### 11.2. Information on Other Hazards

- **Endocrine Disrupting Properties**  
No endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Adopt good working practices to ensure the product is not released into the environment.

#### **Eco-Toxicological Information:**

- Not classified for environmental hazards.
- Based on available data, the classification criteria are not met.

### **12.2. Persistence and Degradability**

N.A.

### **12.3. Bioaccumulative Potential**

N.A.

### **12.4. Mobility in Soil**

N.A.

### **12.5. Results of PBT and vPvB Assessment**

No PBT, vPvB, or endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

### **12.6. Endocrine Disrupting Properties**

No endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

### **12.7. Other Adverse Effects**

Not available.

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## **SECTION 13: Disposal Considerations**

### **13.1. Waste Treatment Methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

**Methods of Disposal:**

Disposal of this product, solutions, packaging, and any by-products should always comply with environmental protection and waste disposal legislation and any regional/local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

- **Do not dispose of waste into sewers.**
- **Hazardous Waste:** Yes.
- **Disposal Considerations:**
  - Do not allow to enter drains or watercourses.
  - Dispose of the product according to all federal, state, and local applicable regulations.
  - If this product is mixed with other wastes, the original waste product code may no longer apply, and the appropriate code should be assigned.
  - Dispose of containers contaminated by the product in accordance with local or national legal provisions.
  - For further information, contact your local waste authority.

**Special Precautions:**

- This material and its container must be disposed of safely.
- Care should be taken when handling untreated empty containers.
- Avoid dispersal of spilled material and runoff, and prevent contact with soil, waterways, drains, and sewers.
- Empty containers or liners may retain some product residues.
- Do not reuse empty containers.

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**SECTION 14: Transport Information**

- Not classified as dangerous according to transport regulations.

**14.1. UN Number or ID Number**

- Not Applicable

**14.2. UN Proper Shipping Name**

- Not Applicable

#### **14.3. Transport Hazard Class(es)**

- Not Applicable

#### **14.4. Packing Group**

- Not Applicable

#### **14.5. Environmental Hazards**

- Not Applicable

#### **14.6. Special Precautions for User**

- Not Applicable

#### **Transport by Mode:**

- **Road and Rail (ADR-RID):** Not Applicable
- **Air (IATA):** Not Applicable
- **Sea (IMDG):** Not Applicable

#### **14.7. Maritime Transport in Bulk According to IMO Instruments**

- **Not Applicable**

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### **SECTION 15: Regulatory information**

1. **U.S. Federal regulations:** This product contains one or more chemical components or ingredients that may require identification and/or reporting under SARA Section 302, SARA Section 311/312/313, CERCLA and/or TSCA. An examination of the components of this product should be conducted by a qualified environmental professional to determine if such identification or reporting is required by federal law. • Components: Portland cement, Silica (Crystalline), Iron oxide.
2. **State regulations:** This product contains one or more chemical components or ingredients that are included or listed on the hazardous substances lists for one or more of the following states: California, Maine, Massachusetts, Minnesota, New Jersey, Pennsylvania and Rhode Island. An examination of the components of this product should be conducted by a qualified environmental or safety and health professional to determine the specific requirements for those states.

**Components:**

Portland cement, Limestone (calcium carbonate), Gypsum (calcium sulfate), Silica (Crystalline), Iron oxide.

3. **California Proposition 65:** WARNING! This product contains crystalline silica and chemicals (trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the above warning in the absence of definitive testing to prove the defined risks do not exist..

**Restrictions Related to the Product or Substances Contained:**

- **Restrictions Related to the Product:** None.
  - **Restrictions Related to the Substances Contained:**
    - No SVHC (Substances of Very High Concern) substances present in a concentration  $\geq 0.1\%$  (w/w).
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**15.2. Chemical Safety Assessment**

- **No Chemical Safety Assessment** has been carried out for the mixture.
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**SECTION 16: Other information****History**

Last Revised: March 25

Previous versions: N/A

**Additional information** Working safely with this product requires the user to recognize that Portland cement chemically reacts with water, and that some of the intermediate products of this reaction (that is, those present while the cement product is “setting”) pose a far greater hazard than dry Portland cement. Wet Portland cement can cause caustic burns to unprotected skin, sometimes referred to as cement burns. Employees cannot rely on pain or discomfort to alert them to cement burns because cement burns may not cause immediate pain or discomfort. By the time an employee becomes aware of a cement burn, much damage has already been done. The safest method to use Portland cement is to avoid contact with exposed

skin completely. Any employee experiencing a cement burn is advised to see a health care professional immediately.

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Portland cement as it is commonly used, the sheet cannot anticipate and provide the all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the information furnished in this safety data sheet does not address hazards that may be posed by other materials not commonly mixed with Portland cement. Users should review other relevant safety data sheets before working with this cement product.

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