



Pocono Fabricators

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PRE-KRETE[®] FS-16

MATERIAL SAFETY DATA SHEET

(OSHA 29 CFR 1910.1200)

SECTION I - IDENTITY

1. **Manufacturer's Name & Address**

Pocono Fabricators
160 Gamma Dr.
Pittsburgh, PA 15238

2. **Emergency Telephone Number**

610-400-1885

3. **Chemical Name & Synonyms**

Hydraulic Calcium Aluminate Cement,
Masonry Cement, Cement

4. **Trade Name & Synonyms**

Formula FS-16 Pre-Krete[®]
Chemical Abstract Service #65997-16-2

SECTION II - HAZARDOUS INGREDIENTS

5. **Ingredients**

Calcium aluminate cements are not listed by OSHA (29 CFR 1910.100, Table 23), MSHA (30 CFR 55.5-1, Ref. 2, ACGIH TLV's for 1973, Appendix E) or ACGIH (TLV's for 1984-5, Appendix D) but are similar in character to portland cement as nuisance dust. It is neither hazardous nor toxic. Calcium cements are **NOT** listed by NTP, IARC, or OSHA as containing carcinogens.

Silica P.E.L. = 0.1 mg. SiO₂ per cubic meter of air (see OSHA Regulations (CFR) Title 29, 1910.1000, Table 3Z Respirable Quartz). IARC – there is limited evidence for the carcinogenicity of crystalline silica to humans.

SECTION III - CHEMICAL DATA

6. **Chemical Family**

Calcium Salts – Calcium Silicates

7. **Formula**

3 CaO . SiO ₂	CaO . Al ₂ O ₃
2 CaO . SiO ₂	2 CaO . Al ₂ O ₃
3 CaO . Al ₂ O ₃	4 CaO . Al ₂ O ₃ . Fe ₂ O ₃
4 CaO . Al ₂ O ₃	2 CaO . Al ₂ O ₃ . SiO ₂
CaSO ₄ . 2 H ₂ O	

SECTION IV - PHYSICAL DATA

8. **Boiling Point**

Not applicable as calcium aluminate cement is a powdered/granular solid.

9. **Vapor Pressure**

Not applicable as calcium aluminate cement is a powdered/granular solid.

10. **Vapor Density**

Not applicable as calcium aluminate cement is a powdered/granular solid.

11. **Solubility in Water**

Slight (0.1 – 1.0%)

12. **Specific Gravity**

2.2 - 2.8

13. **Percentage Volatile By Volume**

0%

14. **Evaporation Rate**

Not applicable as calcium aluminate cement is a powdered/granular solid.

15. **Appearance and Odor**

Tan powder; no odor.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

16. **Flash Point**
Calcium aluminate cements are noncombustible or explosive.
17. **Flammable or Explosive Limits**
Not applicable.
18. **Extinguishing Media**
Not applicable.
19. **Special Fire Fighting Procedures**
Not applicable.
20. **Unusual Fire and Explosion Hazards**
None

SECTION VI - REACTIVITY DATA

21. **Stability**
Product is stable. Keep dry until used.
22. **Incompatibility**
Material to Avoid: Hydrofluoric acid (HF), in which silica will dissolve and produce corrosive gas Silicon Tetrafluoride (SiF₄)
23. **Hazardous Decomposition Products**
Will not occur.

SECTION VII - HEALTH HAZARD DATA

24. **Threshold Limit Value**
OSHA P.E.L. - Not established for calcium aluminate cements.
OSHA P.E.L. - Not established for calcium aluminate cements.
OSHA P.E.L. - Silica (Quartz) = 0.1 mg. SiO₂ per cubic meter of air.
25. **Effects of Overexposure**
Acute:
Wet cement, especially as an ingredient in plastic (unhardened) concrete, mortar, or slurries can dry the skin and cause alkali burns. Cement dust can irritate the eyes and upper respiratory system.

Chronic:

Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. IARC – there is limited evidence for the carcinogenicity of crystalline silica to humans.

Repeated and prolonged inhalation may cause delayed injury to lungs (silicosis).

26. **Emergency and First Aid Procedures**

Irrigate eyes immediately and repeatedly with water and get prompt medical attention. Wash exposed skin areas with soap and water.

SECTION VIII - SPILL PROCEDURES

27. **Steps To Be Taken In Case Material Is Spilled**

Use dry clean-up methods that do not disperse the dust into the air. Avoid breathing the dust. Vacuum and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment specified in Section IX.

28. **Waste Disposal Method**

Material can be disposed of as common waste in accordance with Federal, State, and Local Regulations or returned to the container for later use if it is not contaminated.

SECTION IX - SPECIAL PROTECTION INFORMATION

29. **Respiratory Protection**

In dusty environments, the use of NIOSH approved respirator is recommended.

30. **Ventilation**

Local exhaust can be used, if necessary, to control airborne dust levels, to reduce the dust to the P.E.L. for respirable quartz.

31. **Eye Protection**

In dusty environments, the use of tight fitting goggles is recommended.

32. **Skin Protection**

Use of barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with wet cement in plastic concrete, mortar or slurries. Immediately after working with cement or cement-containing materials, workers should shower with soap and water. Precautions must be observed because cement burns with little warning – little heat is sensed.

SECTION X - SPECIAL PRECAUTIONS

33. PRECAUTIONS To Be Taken In Handling and Storing

Use dustless systems for handling, storage and clean-up so airborne dust not exceed the P.E.L.

34. OTHER PRECAUTIONS

Maintain and test ventilation and dust collection equipment. Wash clothing which has become dusty; do not beat the dust from the clothing.

SECTION XI - ABBREVIATIONS

35.	ACGIH	American Conference of Governmental, Industrial Hygienists
36.	CAS	Chemical Abstract Service
37.	CFR	Code of Federal Regulations
38.	ft ³	Cubic Foot
39.	IARC	International Agency for Research on Cancer
40.	M ₃	Cubic Meter
41.	mg.	Milligram
42.	MSHA	Mine Safety & Health Administration
43.	NIOSH	National Institute for Occupational Safety & Health
44.	NTP	National Toxicology Program
45.	OSHA	Occupational Safety and Health Administration
46.	P.E.L.	Particulate Emission Level
47.	TLV's	Threshold Limit Values

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