

PIONEER MAX

Dubai - UAE

Tel : +971 50 828 7875

e-mail : info@pioneermaxgroup.com

website : www.pioneermaxgroup.com



PIONEER MAX

BUILDING & CONSTRUCTION
MATERIALS TRADING Co. L.L.C

بايونير ماكس

دبي - الإمارات العربية المتحدة

هاتف : +971 50 828 7875

البريد الإلكتروني : info@pioneermaxgroup.com

الموقع الإلكتروني : www.pioneermaxgroup.com

Material Safety Data Sheet – CALCIUM FLOURIDE

SECTION 1– CHEMICAL PRODUCT

Product Name: Synthetic Hydrous Calcium Fluoride

Chemical Name/Synonyms: Synthetic Hydrous Calcium Fluoride

Chemical Formula: $\text{CaF}_2/\text{SiO}_2/\text{Co}_3/\text{H}_2\text{O}$

Chemical Composition: SEE ATTACHED ANALYSIS COMPSITION

NFPA Classification: NON-FLAMABLE

Health	1
Flammability	0
Reactivity	0

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

THIS PRODUCT CONSIDERED NON-HAZARDOUS

OVERVIEW:

Commercially available Sludge also contains about 5 to 7% SiO_2 plus minor trace impurities. The product is **not hazardous** when its delivered state combined with about 10% maximum water as a filter-cake. Dust hazards exist when the product is either dried intentionally or through prolonged open storage.

SECTION 3 – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H_2O = 1)	3.18
Vapor Pressure (mm Hg.)	None	Melting Point	2450
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water: 16 MG/L

Appearance and Odor: Mauve or Off-White, Odorless

PIONEER MAX

Dubai - UAE

Tel : +971 50 828 7875

e-mail : info@pioneermaxgroup.com

website : www.pioneermaxgroup.com



PIONEER MAX

BUILDING & CONSTRUCTION
MATERIALS TRADING Co. L.L.C

بايونير ماكس

دبي - الإمارات العربية المتحدة

هاتف : +971 50 828 7875

البريد الإلكتروني : info@pioneermaxgroup.com

الموقع الإلكتروني : www.pioneermaxgroup.com

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

LEL: N/A

Extinguishing Media: N/A

Unusual Fire and Explosion Hazards: N/A

Flammable Limits: N/A

LIEL: N/A

Special Fire Fighting Procedures: N/A

SECTION 5 – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Avoid presence of uncontrolled strong acid

Incompatibility (Materials to Avoid): Strong Acids

Hazardous Decomposition or Byproducts: No

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

SECTION 6 – HEALTH HAZARD DATA

Potential Health Effects: Overexposure when product is dry or dusty may result in eye, skin, or respiratory tract irritation.

Carcinogenicity:

NTP

N/A

RC Monographs

N/A

OSHA Regulated

No

Signs and Symptoms of Exposure: Irritation to eyes, skin, or respiratory tract

Medical Conditions due to exposure: None known

Emergency/First Aid Procedures:

1. **Eye Contact** – Flush thoroughly with tepid water.
2. **Skin Contact** – Wash thoroughly with soap and water.
3. **Inhalation** – Remove to fresh air.
4. **Ingestion** – Give plenty of water.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Sweep and scoop up and remove.

Waste Disposal Method: Restock or dispose of in a manner to avoid dusting. Should large volumes require disposal, check with waste disposal regulatory agencies.

PIONEER MAX

Dubai - UAE

Tel : +971 50 828 7875

e-mail : info@pioneermaxgroup.com

website : www.pioneermaxgroup.com



PIONEER MAX

BUILDING & CONSTRUCTION
MATERIALS TRADING Co. L.L.C

بايونير ماكس

دبي - الإمارات العربية المتحدة

هاتف : +971 50 828 7875

البريد الإلكتروني : info@pioneermaxgroup.com

الموقع الإلكتروني : www.pioneermaxgroup.com

Precautions to Be Taken in Handling and Storing: Avoid strong acids.

Other Precautions: If bulk material is to be handled, caution regarding dust hazard be employed.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 2.5 Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid)

Odor: Not available.

Taste: Not available.

Molecular Weight: 78.08 g/mole

Color: White. Off-white.

pH (1% soln/water): Not available.

Boiling Point: 2500°C (4532°F)

Melting Point: 1403°C (2557.4°F)

Critical Temperature: Not available.

Specific Gravity: 3.18 (Water = 1)

PIONEER MAX

Dubai - UAE

Tel : +971 50 828 7875

e-mail : info@pioneermaxgroup.com

website : www.pioneermaxgroup.com



PIONEER MAX

BUILDING & CONSTRUCTION
MATERIALS TRADING Co. L.L.C

بايونير ماكس

دبي - الإمارات العربية المتحدة

هاتف : +971 50 828 7875

البريد الإلكتروني : info@pioneermaxgroup.com

الموقع الإلكتروني : www.pioneermaxgroup.com

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:

Very slightly soluble in cold water. Insoluble in acetone. Solubility in water: 0.0015g/100 ml water @ 18 deg C. Slightly soluble in dilute mineral acids. Soluble in ammonium salts.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, dust generation

Incompatibility with various substances: Not available.

Corrosively: Not available.

Special Remarks on Reactivity:

Hygroscopic; keep container tightly closed. Reacts with hot concentrated sulfuric acid to liberate hydrogen fluoride. There is a hazard of Hydrofluoric acid being formed.

Special Remarks on Corrosively: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 4250 mg/kg [Rat].

Chronic Effects on Humans:

PIONEER MAX

Dubai - UAE

Tel : +971 50 828 7875

e-mail : info@pioneermaxgroup.com

website : www.pioneermaxgroup.com



PIONEER MAX

BUILDING & CONSTRUCTION
MATERIALS TRADING Co. L.L.C

بايونير ماكس

دبي - الإمارات العربية المتحدة

هاتف : +971 50 828 7875

البريد الإلكتروني : info@pioneermaxgroup.com

الموقع الإلكتروني : www.pioneermaxgroup.com

DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE]. May cause damage to the following organs: blood, kidneys, lungs, liver, cardiovascular system, skin, bones, central nervous system (CNS), teeth.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May affect genetic material (mutagenic). May cause adverse reproductive effects and birth defects (teratogenicity) based on animal test data.

Section 12: Ecological Information

Eco toxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are **not toxic**.

Special Remarks on the Products of Biodegradation: Not available

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Proper shipping: Name Not regulated

Hazard Class : Not classified as Hazardous

UN Number : NILL (NOT classified as Hazardous)

HS Code: 25292100

PIONEER MAX

Dubai - UAE

Tel : +971 50 828 7875

e-mail : info@pioneermaxgroup.com

website : www.pioneermaxgroup.com



PIONEER MAX

BUILDING & CONSTRUCTION
MATERIALS TRADING Co. L.L.C

بايونير ماكس

دبي - الإمارات العربية المتحدة

هاتف : +971 50 828 7875

البريد الإلكتروني : info@pioneermaxgroup.com

الموقع الإلكتروني : www.pioneermaxgroup.com

Remarks

*TDGR : not regulated, CFR 49 : not regulated, IMO : not regulated,
ICAO : not regulated , IATA : not regulated.*

Section 15: Other Regulatory Information

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Reactivity: 0

Protective Equipment:

Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.