

PIONEER MAX

Dubai - UAE

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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

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Material Safety Data Sheet – GYPSUM ANHYDRITE

1. COMPANY AND PRODUCT IDENTIFICATIONS	
1.1 COMPANY IDENTIFICATION	
NAME	Pioneer Max Building and Construction Materials Trading Co. LLC
Address	OSHA plaza 2, FLOOR 11, Office #1104, Al Khaleej Street, Dubai, UAE
PHONE	+97 50 828 7875
E Mail	Info@pioneermaxgroup.com
Website	www.pioneermaxgroup.com

1.2 PRODUCT IDENTIFICATIONS	
Chemical Name	Calcium Sulfate
Synonyms	Anhydrite, Gypsum
Formula	CaSO ₄

2. COMPOSITION / INFORMATION ON		
Name of Compound	CAS Number	EINECS No
Calcium Sulfate 94 – 98 %	7778-18-9	231-900-3
Calcium Hydroxide – 0.1 – 1%	1305-62-0	215-137-3
Calcium Fluoride 1 – 4 %	7789-75-5	232-188-7

3. PHYSICAL / CHEMICAL DATA			
Boiling Point	Not applicable	Vapor Pressure	No data
Melting Point	1450 °C (2642 °F)	Solubility in Water	Very less (2 g/l)
Vapor Density (Air=1)	No data	Appearance	White to light brown
Spec. Gravity (Water=1)	2.32 at 19.5 °C	Odor	Odorless
pH (10% solution)	5-10	Other	Soluble in acids.
Physical State	Powder		Hygroscopic powder

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4. FIRE / EXPLOSION DATA

Flammability: Non-Flammable	LEL%: Not Applicable	Flash Point: Not Applicable	
Auto Ignition Temp.: Not Applicable	UEL%: Not Applicable		
Haz. Combustion Product: The product may evolve toxic HF fumes on contact with strong acids or heated up to 1200 °C in moist air.			
Haz. Polymerization: Will Not Occur			
Combustible Liquid	No	Oxidizer	No
Flammable Material	No	Organic Peroxide	No
Pyrophoric Material	No	Corrosive	Yes
Explosive Material	No	Other	
Extinguishing Media: Use extinguishing media appropriate to surrounding fires.			
Special Fire Fighting Procedure: Use full face mask with acid gas cartridge. Toxic gas may be produced in fire. Evacuate non-essential personnel from danger area.			

5. STABILITY & REACTIVITY DATA

Chemical Stability	Stable at room temp. Store in closed containers under normal storage and handling conditions. Hazardous polymerization will not occur.
Incompatibility	Strong Acids.
Conditions to Avoid	Moisture and strong acids.
Haz. Reactions / Decomposition Products	Toxic and Irritating fumes of Sulfur oxides may be evolved on decomposition at high temp. (above 770 °C)

6. HEALTH HAZARD DATA

Effect of Exposure/ Symptoms	Routes of Entry: Skin, Eyes, Inhalation, Ingestion SKIN: Anhydrite dust may cause irritation. On prolonged exposure, skin may become dry and chapped, risk of chronic dermatitis. EYES: Irritation. Major exposure may lead to watering and redness of eyes. INHALATION: Irritation of nose and throat. On prolonged exposure; risk of sore throat, nose bleeds, chronic bronchitis. INGESTION: Can cause severe irritation of mouth, throat, and stomach burns. It may result to nausea, vomiting and abdominal cramps.
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7. TOXICOLOGICAL INFORMATION

LD50 / LC50 (Acute Toxicity)	Inhalation	No data.
	Oral	LD 50, rat > 2000 mg/kg (calcium sulfate, dehydrated)
	Dermal	No Data
	Irritation	Skin and eyes
	Sensitization	No Data
	Comments	Irritant effects on skin, eyes, and respiratory tract
Chronic Toxicity	No data	
Carcinogenic Designation	None	
Exposure Limit	TWA =15 mg/m ³ (OSHA), 10 mg/m ³ (ACGIH), STEL = Data not available.	
NFPA Haz. signals	Health 0, Flammability 0, Reactivity 0	

8. ECOLOGICAL INFORMATION

Aquatic toxicity	Fish, <i>Lepomis macrochirus</i> , LC ₅₀ , 96 hours(s), 2980 mg/l Toxic effect observed at the solubility limit of the product.
	Algae, <i>Nitzschia linera</i> , EC ₅₀ , 5 days, 300 mg/l Toxic effect observed at the solubility limit of the product.
Mobility	Air – Mobility as solid aerosols. Water – Low mobility. Soil – By adsorption on mineral and organic soil.
Degradation Abiotic	Air- Inert product in normal environmental conditions. Water / Soil – Slow ionization and cation precipitation in presence of sulfates or carbonates. Conditions: Alkaline pH
Degradation Biotic	Not applicable as it is inorganic compound. Anaerobic, test biodegradation by sulforeduction. Degradation's products: Hydrogen sulfide (sulfates)
Other adverse effects / Comments	Product is not significantly hazardous for the environment.

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9. PREVENTIVE MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls	Reduce dust below permissible TLV levels. Premises ventilation.
Personal Protective Equipment's	Hand Gloves: PVC double dipped gauntlet with interlock. Goggles : Chemical splash goggles/ dust proof goggles. Dust mask: P3 or N95 grade. Clothing : Full protective clothing. Safety shoe: Haz mat shoe. Gas Mask: Acid gas mask with particulate filter/ Self Contained Breathing Apparatus

10. HANDLING AND STORAGE

Handling	Well-ventilated area
Storage	Store in a dry and well-ventilated area. Keep in original packaging in closed
Recommendation	Keep away from moisture and strong acids.

11. EMERGENCY / FIRST AID MEASURES

Fire	Use extinguishing media appropriate to surrounding fire.
Exposure / First Aid Measures	SKIN: Remove all contaminated clothing and shoes. Wash contaminated skin with soap and water for at least 15 min. Consult physician in case of persistent pain or redness of skin. EYES: Flush immediately with water for 15 min. Consult ophthalmologist, in case of persistent pain/ redness of eye. INHALATION: Remove the person to fresh air. Provide respiratory assistance and CPR as needed. Seek medical attention. INGESTION: Do not induced vomiting. Thoroughly rinse mouth with water. Never try to give an unconscious person anything by mouth. Seek medical attention immediately.
Special Procedure	NIOSH approved respirator with high efficiency particulate air (HEPA) filter and dust.

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12. ACCIDENTAL RELEASE MEASURES

General Information	Always use NIOSH approved respirator with full clothing and PVC hand gloves, hazmat shoe and chemical splash/ dust proof goggles.
Spills / Release	Approach from upwind. Collect material by avoiding dust generation. Keep all collected materials in a closed labeled container. Clean up the area with larger quantities of water.

13. DISPOSAL CONSIDERATIONS

Waste Treatment	Disposal in compliance with local, state, and federal regulations. Dispose at authorized secured industrial land fill site.
Packaging Treatment	To avoid treatments, as far as possible, use dedicated containers. Empty and clean containers can be reused in compliance with regulations. Dispose of the containers by industrial incineration facility.

14. TRANSPORTATION INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA)	
Shipping Name	Anhydrite
Hazard Class (subsidiary)	Not classified
UN Number	Not a regulated hazardous material. It is recommended that ERG #111 be used for all non-DOT regulated material.
Packing Group	Not classified
HS Code	25201000
Hazard Class Label	Not classified

15. REGULATORY INFORMATION

US National Regulations:

TSCA Inventory 8(b): Yes

SARA Title III Sec.302/303 Extremely Hazardous Substance (40 CFR 355): No

SARA Title III Sec.311/312 (40 CFR 370): None

SARA Title III Sec.313 Toxic Chemical Emission Reporting (40 CFR 372): No

UAE: Follow OSHAD SF - CoP 1.0 Hazardous materials issued by Dubai Occupational safety and health

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