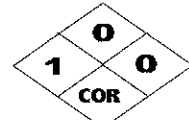


Health Hazard	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	E

HMIS RATING

**MATERIAL SAFETY DATA SHEET
(OSHA 29 CFR 1910.1200)**



NFPA RATING

Effective Date: September 3, 2009
Supersedes: May 10, 2005

SECTION I – PRODUCT INFORMATION

- MANUFACTURER'S NAME AND ADDRESS:**
United States Mineral Products Company
dba Isolatek International/CAFECO INDUSTRIES
41 Furnace Street
Stanhope, NJ 07874
- EMERGENCY TELEPHONE NUMBER:**
973-347-1200
- CHEMICAL NAME AND SYNONYMS**
Aluminum Sulfate Hydrate - Alum
- CHEMICAL FAMILY:**
Inorganic Acid Salt
- FORMULA:**
Al₂(SO₄)₃ Hydrate
- TRADE NAMES AND SYNONYMS:**
CAFECO QWIK-SET®

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV – TWA
Aluminum Sulfate	1043-01-3 (Anhydrous)	2mg/m ³	2mg/m ³

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

- Boiling Point (°F): N/Ap
- Vapor Density (Air=1): N/Ap
- Solubility in Water: 50% by Wt.
- Specific Gravity (H₂O=1): 1.6
- Evaporation Rate: N/Ap
- Appearance and Odor: White or buff granules or powder. No odor.
- Physical State: Solid
- Percent Volatile by Volume (%): N/Ap
- Vapor Pressure (mm Hg): Negligible

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

- Flash Point (Method used): Non-flammable
- Flammable Limits: N/Ap
- Extinguishing Media: N/Ap
- Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
- Unusual Fire and Explosion Hazards: Thermal decomposition produces toxic fumes.

SECTION V - REACTIVITY DATA

- Stability: Stable
Conditions to Avoid: Temperatures above 760°C (1400°F)
- Incompatibility (Materials to Avoid): Alkalis and water sensitive materials.
- Hazardous Decomposition Products: Will release SO₂ and SO₃ at temperatures cited above.
- Hazardous Polymerization: Will not occur
Conditions to Avoid: N/Ap

N/Ap = Not Applicable

SECTION VI - HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, Skin and Eye Contact.

Acute: Dust or mist inhalation at levels above the TLV levels listed herein may irritate respiratory tract. May cause irritation to eyes and skin.

Chronic: Inhalation over long periods of high amounts of any dust may overload lung clearance mechanisms and may make the lungs more vulnerable to disease.

Carcinogenicity: NTP - NO IARC - NO OSHA - NO

Medical Conditions Aggravated by Exposure: Any condition which may be aggravated by mechanical irritants.

Emergency and First Aid Procedures:

- Eye Contact: *Flush with water. If irritation persists, seek medical attention.
- Skin Contact: *Wash with water. Launder clothing separate from other garments.
- Inhalation: *Remove to fresh air.
- Ingestion: *If conscious, drink large amounts of water.

*Seek medical attention for all cases of overexposure.

USE NORMAL PERSONAL HYGIENE AFTER CONTACT TO REMOVE ANY MATERIAL CONTAMINANTS.

California Proposition 65

This product **does not contain** substances known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

1. Steps to be taken in case material is released or spilled:
Dry material may be shoveled into containers for later use or disposal.
2. Waste Disposal Method: In accordance with local, state, and federal regulations.
3. Precautions to be taken in handling and storing:
Avoid inhalation of dust during use. Avoid skin and eye contact. Use normal personal hygiene to remove material contaminants.

SECTION VIII - CONTROL MEASURES

1. Respiratory Protection: Use NIOSH approved dust mask or equivalent for nuisance dust.
2. Ventilation: Maintain dust levels below TLV.
3. Protective Gloves: Wear Neoprene, PVC or equivalent gloves.
4. Eye Protection: Wear proper eye protection.
5. Other Protective Equipment: Wear loose fitting long sleeve shirt and pants.

SECTION IX- PREPARATION INFORMATION

Prepared By: Research Department, U.S.A.

Telephone: (973) 347-1200

Effective Date: September 3, 2009

Supersedes: May 10, 2005

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Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risks in his use of the material.