



TAMMS SLU

Version 2.
REVISION DATE: 09/22/2008

Print Date 09/23/2008

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : TAMMS SLU
 Product code : TR5122650

COMPANY : Euclid Chemical Company
 19218 Redwood Road
 Cleveland, OH 44110

Telephone : 1-800-321-7628
 Emergency Phone: : U.S. only: 1-800-424-9300
 International Users Call Collect: 1-703-527-3887

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Gray. Powder. Dust may irritate nose and throat. Dust irritating to the respiratory tract. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : Dust may irritate nose and throat. Dust irritating to the respiratory tract.
 Eyes : Direct contact may cause severe irritation. May cause mechanical irritation or abrasion, and possible chemical burns. May cause temporary injury.
 Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
 Skin : May cause severe irritation. May cause dryness, cracking, irritation, and chemical burns. May produce cement dermatitis due to primary irritation from alkaline, hygroscopic and abrasive properties.

Aggravated Medical Conditions

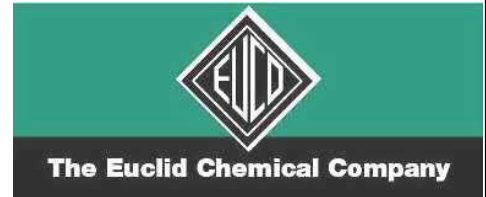
Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica.

SECTION 3 - PRODUCT COMPOSITION

| Chemical Name | CAS-No. | Weight % |
|--|-------------------------|-------------|
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 | 40.0 - 70.0 |
| Portland cement | 65997-15-1 | 15.0 - 40.0 |
| Calcium salt | 7778-18-9 | 10.0 - 30.0 |
| Fused calcium aluminate | NJ TSRN# 51721300-5813P | 5.0 - 10.0 |
| Vinyl Acetate copolymer | NJ TSRN# 51721300-5879P | 1.0 - 5.0 |



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| | | |
|---------------|----------|--------|
| Vinyl acetate | 108-05-4 | - <0.1 |
| Formaldehyde | 50-00-0 | - <0.1 |

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

- Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point : Not available.
- Method : Not available.
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : This product is not expected to burn under normal conditions of use. Use that which is appropriate to the surroundings.
- Hazardous combustion products : Not available.
- Protective equipment for firefighters : Not applicable. Product is not expected to burn.
- Fire and explosion conditions : This product not expected to ignite under normal conditions of use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Dampen material with water to control dusting. Scoop up and transfer to appropriate container for disposal. Flush spill area with water.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of dust and contact with skin and eyes. Clean hands thoroughly after handling. Precautions also apply to emptied containers. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store in sealed containers in a cool, dry, ventilated warehouse location.



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

- Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved dust respirator where airborne concentrations are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing.
- Protective measures : Use professional judgment in the selection, care, and use. Wear gloves, head coverings and full body clothing as necessary to prevent skin irritation. Washable or disposable clothing may be used. Do not take unwashed clothing home. Work clothes should be washed separately from other clothing and the washing machine rinsed thoroughly following use. Inform the launderer of the proper procedures. Store work clothes and street clothes separately to prevent contamination.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

| Chemical Name | CAS Number | Regulation | Limit | Form |
|---|------------|-------------|-------------|---|
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 | OSHA TWA: | 0.1 mg/m3 | Respirable. |
| | | OSHA TWA: | 0.3 mg/m3 | Total dust. |
| | | OSHA PEL: | 15 mg/m3 | Total dust. |
| | | OSHA PEL: | 5 mg/m3 | Respirable fraction. |
| | | ACGIH TWA: | 0.025 mg/m3 | Respirable fraction. |
| Portland cement | 65997-15-1 | ACGIH TWA: | 10 mg/m3 | Respirable fraction. Total dust. |
| | | OSHA PEL: | 5 mg/m3 | |
| | | OSHA PEL: | 15 mg/m3 | |
| Calcium salt | 7778-18-9 | ACGIH TWA: | 10 mg/m3 | Respirable fraction. Total dust. Total dust. Respirable fraction. Inhalable fraction. |
| | | OSHA PEL: | 5 mg/m3 | |
| | | OSHA PEL: | 15 mg/m3 | |
| | | OSHA TWA: | 15 mg/m3 | |
| | | OSHA TWA: | 5 mg/m3 | |
| | | ACGIH TWA: | 10 mg/m3 | |
| Vinyl acetate | 108-05-4 | ACGIH TWA: | 10 ppm | |
| | | ACGIH STEL: | 15 ppm | |

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|------------------|
| Form | : Powder |
| Color | : Gray |
| Odor | : None |
| pH | : Not available. |
| Vapour pressure | : Not available. |
| Vapor density | : Not available. |
| Melting point/range | : Not available. |
| Freezing point | : Not available. |
| Boiling point/range | : Not available. |
| Water solubility | : Miscible |
| Specific Gravity | : 2.7 |
| % Volatile Weight | : 0.0 % |

SECTION 10 - REACTIVITY / STABILITY

| | |
|--------------------------|---|
| Substances to avoid | : Not Applicable. |
| Stability | : Material is stable under normal storage, handling, and use. |
| Hazardous polymerization | : Will not occur under normal conditions. |

SECTION 11 - TOXICOLOGICAL INFORMATION

| | |
|-----------------------------------|---|
| Vinyl acetate, CAS-No.: 108-05-4 | |
| Acute oral toxicity (LD-50 oral) | 2,920 mg/kg (Rat) 1,613 mg/kg (Mouse) |
| Acute inhalation toxicity (LC-50) | 3,680 mg/l for 4 h (Rat) 5,150 mg/l for 4 h (Mouse) 21,800 mg/l for 4 h (Guinea pig) 8,800 mg/l for 4 h (Rabbit) 1,550 mg/l for 4 h (Mouse) 2,500 mg/l for 4 h (Rabbit) 6,215 mg/l for 4 h (Guinea pig) 2,511 mg/l for 4 h (Rabbit) |
| Formaldehyde, CAS-No.: 50-00-0 | |
| Acute oral toxicity (LD-50 oral) | 800 mg/kg (Rat) 260 mg/kg (Guinea pig) 100 mg/kg (Rat) 42 mg/kg (Mouse) |
| Acute inhalation toxicity (LC-50) | 0.82 mg/l for 30 min (Rat) 0.48 mg/l for 4 h (Rat) 0.414 mg/l for 4 h (Mouse) 0.4 mg/l for 2 h (Mouse) |



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SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Not regulated under RCRA. Dispose of in compliance with state and local regulations. Do not incinerate.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:

NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

OSHA Hazardous Components :

| | |
|--|------------|
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 |
| Portland cement | 65997-15-1 |
| Calcium salt | 7778-18-9 |
| Vinyl acetate | 108-05-4 |

OSHA Status: Considered hazardous based on the following criteria : Irritant
Carcinogen

OSHA Flammability : Not Regulated

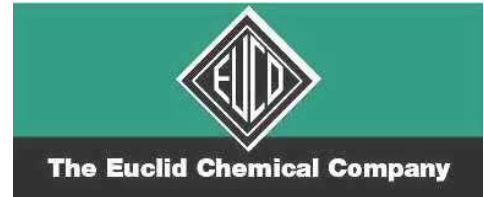
Regulatory VOC (less water and exempt solvent) : 0 g/l
VOC Method 310 : 0 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

| | |
|--|------------|
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 |
|--|------------|

U.S. State Regulations:

| | | | |
|---------------------|---|--|------------|
| MASS RTK Components | : | Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 |
| | | Portland cement | 65997-15-1 |



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| | | |
|---------------------|--|-------------------------|
| | Calcium salt | 7778-18-9 |
| | Vinyl acetate | 108-05-4 |
| | Formaldehyde | 50-00-0 |
| Penn RTK Components | : Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 |
| | Portland cement | 65997-15-1 |
| | Calcium salt | 7778-18-9 |
| | Fused calcium aluminate | NJ TSRN# 51721300-5813P |
| NJ RTK Components | : Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 |
| | Portland cement | 65997-15-1 |
| | Calcium salt | 7778-18-9 |
| | Fused calcium aluminate | NJ TSRN# 51721300-5813P |
| | Vinyl Acetate copolymer | NJ TSRN# 51721300-5879P |

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

| | |
|------------|--|
| 14808-60-7 | Crystalline Silica (Quartz)/ Silica Sand |
| 554-13-2 | Lithium carbonate |

SECTION 16 - OTHER INFORMATION

HMIS Rating :

| | |
|--------------|---|
| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |
| PPE | |

0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists
 CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
 DOT - Department of Transportation
 DSL - Domestic Substance List
 EPA - Environmental Protection Agency
 HMIS - Hazardous Materials Information System
 IARC - International Agency for Research on Cancer
 MSHA - Mine Safety Health Administration
 NDSL - Non-Domestic Substance List
 NIOSH - National Institute for Occupational Safety and Health
 NTP - National Toxicology Program
 OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit
 RCRA - Resource Conservation and Recovery Act
 RTK - Right To Know
 SARA - Superfund Amendments and Reauthorization Act
 STEL - Short Term Exposure Limit
 TLV - Threshold Limit Value
 TSCA - Toxic Substances Control Act
 TWA - Time Weighted Average
 V - Volume
 VOC - Volatile Organic Compound
 WHMIS - Workplace Hazardous Materials Information System