

**EUCOPATCH**Version 2.  
REVISION DATE: 09/12/2008

Print Date 09/13/2008

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : EUCOPATCH  
 Product code : 065A 50

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	30.0 - 60.0
Calcium nitrate	10124-37-5	1.0 - 5.0
Calcium oxide	1305-78-8	1.0 - 5.0
Water	7732-18-5	1.0 - 5.0





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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 oxide	1305-78-8	ACGIH TWA:	2 mg/m3	Total dust. Respirable fraction.
		OSHA PEL:	5 mg/m3	
		OSHA TWA:	15 mg/m3	
		OSHA TWA:	5 mg/m3	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Powder
- Color : Gray
- Odor : None



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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 : 2.65 - 2.85  
 % Volatile Weight : 1.0 %

**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**

Calcium nitrate, CAS-No.: 10124-37-5  
 Acute oral toxicity (LD-50 oral) 302 mg/kg ( Rat )

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 )

**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



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**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 : Calcium nitrate 10124-37-5  
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 nitrate 10124-37-5  
Calcium oxide 1305-78-8

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

OSHA Flammability : Not Regulated

Regulatory VOC (less water and : 0 g/l  
exempt solvent)  
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  
Calcium oxide 1305-78-8  
Formaldehyde 50-00-0

Penn RTK Components : Crystalline Silica (Quartz)/ Silica Sand 14808-60-7  
Portland cement 65997-15-1  
Calcium oxide 1305-78-8

NJ RTK Components : Crystalline Silica (Quartz)/ Silica Sand 14808-60-7  
Portland cement 65997-15-1  
Calcium nitrate 10124-37-5  
Calcium oxide 1305-78-8  
Water 7732-18-5

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



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**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	2
Flammability	0
Reactivity	1
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