



EUCLID CHEMICAL

HI - FLOW GROUT

Version 4.0

Print Date 05/15/2013

REVISION DATE: 05/14/2013

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : HI - FLOW GROUT
Product code : 88H 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	15.0 - 40.0
Silica, fused	60676-86-0	10.0 - 30.0
Amorphous silica	7631-86-9	3.0 - 7.0
Calcium salt	7778-18-9	1.0 - 5.0

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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.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

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- 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	OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		ACGIH TWA:	1 mg/m3	Respirable fraction.
Amorphous silica	7631-86-9	ACGIH TWA:	3 mg/m3	Respirable particles.
		ACGIH TWA:	10 mg/m3	Inhalable particles.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA TWA:	0.8 mg/m3	
Calcium salt	7778-18-9	ACGIH TWA:	10 mg/m3	
		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
		ACGIH TWA:	10 mg/m3	Inhalable fraction.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Form : Powder
- Color : Gray

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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	: 2.9
% 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

Amorphous silica, CAS-No.: 7631-86-9	
Acute oral toxicity (LD-50 oral)	22,500 mg/kg (Rat) 15,000 mg/kg (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.
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SECTION 14 - TRANSPORTATION / SHIPPING DATA**CFR / DOT:**

Not Regulated

TDG:

Not Regulated

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IMDG:

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
Amorphous silica	7631-86-9
Calcium salt	7778-18-9

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
	Silica, fused	60676-86-0
	Amorphous silica	7631-86-9
	Calcium salt	7778-18-9
	Formaldehyde	50-00-0

Penn RTK Components	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Portland cement	65997-15-1
	Silica, fused	60676-86-0
	Amorphous silica	7631-86-9
	Calcium salt	7778-18-9

NJ RTK Components	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Portland cement	65997-15-1
	Silica, fused	60676-86-0
	Amorphous silica	7631-86-9



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Calcium salt

7778-18-9

Components under California Proposition 65:

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

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