

**HEY'DI K-11 GRAY 50# PL**Version 1.1
REVISION DATE: 01/18/2008

Print Date 01/19/2008

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : HEY'DI K-11 GRAY 50# PL
 Product code : TR2120750521

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 %
Portland cement	65997-15-1	40.0 - 70.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	30.0 - 60.0
Amorphous silica	7631-86-9	10.0 - 30.0
Aluminum oxide	1344-28-1	3.0 - 7.0
Iron oxide	1309-37-1	1.0 - 5.0



HEY'DI K-11 GRAY 50# PL

Version 1.1
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Calcium oxide	1305-78-8	1.0 - 5.0
Sulfur trioxide	7446-11-9	- <0.1
Diphosphorus pentoxide	1314-56-3	- <0.1
Vinyl acetate	108-05-4	- <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.



HEY'DI K-11 GRAY 50# PL

Version 1.1
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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
Portland cement	65997-15-1	ACGIH TWA: OSHA PEL: OSHA PEL:	10 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
Amorphous silica	7631-86-9	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA:	3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 0.8 mg/m3	Respirable particles. Inhalable particles. Total dust. Respirable fraction.
Aluminum oxide	1344-28-1	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction.

**HEY'DI K-11 GRAY 50# PL**

Version 1.1

Print Date 01/19/2008

REVISION DATE: 01/18/2008

Chemical Name	CAS Number	Regulation	Limit	Form
Iron oxide	1309-37-1	OSHA PEL: OSHA TWA: OSHA TWA: ACGIH TWA:	10 mg/m3 15 mg/m3 5 mg/m3 5 mg/m3	Fume. Total dust. Respirable fraction. Respirable fraction.
Calcium oxide	1305-78-8	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Total dust. Respirable fraction.
Vinyl acetate	108-05-4	ACGIH TWA: ACGIH STEL:	10 ppm 15 ppm	

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	: 3.0
% 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) 22,500 mg/kg (Rat) 15,000 mg/kg (Mouse) 15,000 mg/kg (Mouse)
Diphosphorus pentoxide, CAS-No.: 1314-56-3	



HEY'DI K-11 GRAY 50# PL

Version 1.1
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Acute inhalation toxicity (LC-50) 0.061 mg/l for 1 h (Guinea pig) 0.271 mg/l for 1 h (Mouse)
1.689 mg/l for 1 h (Rabbit) 1.217 mg/l for 1 h (Rat)

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)

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 : Aluminum oxide 1344-28-1
SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

OSHA Hazardous Components :
Portland cement 65997-15-1
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
Amorphous silica 7631-86-9
Aluminum oxide 1344-28-1
Iron oxide 1309-37-1
Calcium oxide 1305-78-8
Sulfur trioxide 7446-11-9
Vinyl acetate 108-05-4

OSHA Status: Considered : Irritant
hazardous based on the Carcinogen



HEY'DI K-11 GRAY 50# PL

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following criteria:

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 : Portland cement 65997-15-1
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Amorphous silica 7631-86-9
 Aluminum oxide 1344-28-1
 Iron oxide 1309-37-1
 Calcium oxide 1305-78-8
 Sulfur trioxide 7446-11-9
 Diphosphorus pentoxide 1314-56-3
 Vinyl acetate 108-05-4

Penn RTK Components : Portland cement 65997-15-1
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Amorphous silica 7631-86-9
 Aluminum oxide 1344-28-1
 Iron oxide 1309-37-1
 Calcium oxide 1305-78-8

NJ RTK Components : Portland cement 65997-15-1
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Amorphous silica 7631-86-9
 Aluminum oxide 1344-28-1
 Iron oxide 1309-37-1
 Calcium oxide 1305-78-8

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

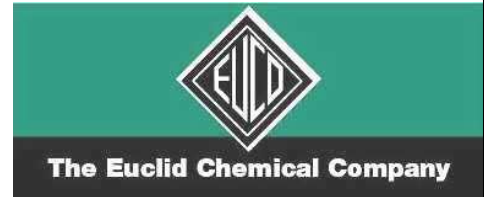
14808-60-7 Crystalline Silica (Quartz)/ Silica Sand
 7446-11-9 Sulfur trioxide

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	0
Reactivity	0
PPE	

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



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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