

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard, 29 CFR 1910.1200

US SPEC HYDRAULIC CEMENT

Version 1.1

Revision Date: 1/06

N.F.P.A. & H.M.I.S. RATING

HAZARD INDEX

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

HAZARD CLASS

Flammability
0
Health Reactivity
1 0
Special Note
-

SECTION I – PRODUCT IDENTIFICATION

Product Name: US SPEC Hydraulic Cement

Manufacturer: US MIX Co.
112 South Santa Fe Drive
Denver, CO 80223

Emergency Contact: CHEMTREC 800-424-9300

Information Contact: US MIX Co. 303-778-7227

SECTION II - HAZARDOUS INGREDIENTS

	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMITS	PERCENT
Portland Cement	65997-15-1	10 mg/m ³	10 mg/m ³	50 MPPCF	30-60
Crystalline Silica	14808-60-7	10 mg/m ³	0.1 mg/m ³	NA	30-60

Crystalline Silica is recognized by the International Agency for Research on Cancer (IARC) as a Group 1 carcinogen, by the National Toxicology Program (NTP) as a Group 2 carcinogen and by the State of California (Proposition 65) as carcinogenic to humans.

SECTION III - PHYSICAL CHEMICAL CHARACTERISTICS

Appearance: Grey Powder

Odor: None

Boiling Point: NA

Freezing / Melting Point: NA

Vapor Pressure (mm Hg): NA

Evaporation (Butyl Acetate = 1): NA

Vapor Density (Air = 1): NA

Water Solubility: Negligible

Specific Gravity (H₂O=1): 2.2

Other Solubilities: None Known

pH: NA

VOC Content: 0 g/L

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Tag Closed Cup): Non-Flammable
Flammable Limits LEL: NA UEL: NA
Extinguishing Media: NA
Special Fire Fighting Procedures: NA
Unusual Fire and Explosion Hazards: NA

SECTION V - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: NA
Incompatibility (Materials to Avoid): NA
Hazardous Decomposition (Byproducts): NA
Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY

Inhalation? Yes Skin? Yes Ingestion? Yes Eyes? Yes

HEALTH HAZARDS (ACUTE AND CHRONIC)

Inhalation: Repeated inhalation of respirable dust over extended periods of time may cause injury to the lungs (silicosis).

Skin Contact: May cause irritation, burns and tissue damage.

Ingestion: May cause caustic burns in the mouth, esophagus and stomach.

Eye Contact: May cause burning and corneal edema.

Carcinogenicity:

	ACGIH	IARC	NTP	OSHA
Crystalline Silica	Suspected Human Carcinogen	Human Carcinogen	Known Carcinogen	N.E.

WARNING: This product contains crystalline silica, a chemical known to the State of California (Proposition 65) to cause cancer, birth defects and/or other reproductive toxicity.

SIGNS AND SYMPTOMS OF EXPOSURE

Cough, dyspnea (breathing difficulty), wheezing, decreased pulmonary function, progressive respiratory symptoms (silicosis), irritation eyes and potential occupational carcinogen.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

None Known

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move to fresh air. If cough, irritation, difficulty in breathing persist or develop, call a physician.

Skin Contact: Do not rub skin. Rinse skin free of material with water to avoid abrasion of skin. Wash thoroughly with soap and water.

Ingestion: Administer milk or water. DO NOT induce vomiting. Call a physician or Poison Control Center immediately. DO NOT give anything orally to an unconscious person.

Eye Contact: Do not rub eyes. Flush with water for 15 minutes. Call a physician.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No hazard. Vacuum or sweep up and dispose of in standard landfill. Avoid excessive dusting.

Waste Disposal Method: Preferred procedure is to vacuum material. Otherwise, spray with water and clean up with broom and shovel. Dispose of in accordance with local, state and federal regulations.

Precautions to be taken in Handling and Storage: Store material on pallets in a dry location. Avoid contact with eyes or skin.

Other Precautions: Avoid prolonged contact between skin surfaces and wet or moist Portland cement. Skin areas that have been in contact with wet or moist Portland cement should be washed thoroughly with soap and water.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: A NIOSH approved dust mask is recommended according to OSHA regulation 29 CFR 1910.134.

Ventilation: Fan or forced air exhaust. If ventilation is inadequate use respiratory protection.

Protective Gloves: Use rubberized gloves according to OSHA regulation 29 CFR 1910.138.

Eye Protection: Wear safety goggles or face shield according to OSHA regulation 29 CFR 1910.133.

Other Protective Clothing or Equipment: Safety showers, eye wash stations and washing facilities should be available.

Work/Hygienic Practices: Wash thoroughly with soap and water before eating, smoking or using washroom. Remove and wash contaminated clothing before re-use.

SECTION IX – DOT DATA

DOT Transportation Data (49 CFR 172.101):

Shipping Name:	Not a Regulated Material
Hazard Class:	Non-Hazardous
ID No.:	NA
Packing Group:	NA
Label:	NA
Limited Quantity Exceptions:	NA
US Domestic Ground Shipments:	NA
Maritime Transport:	NA
Air Transport:	NA
Placards:	NA
National Motor Freight NMF-100-0:	Cement
	Item: 42130
	Class: 55

SECTION X – REGULATORY INFORMATION

OSHA Status: Irritant

SARA Title III: Section 312 Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: Acute Health Hazard
Section 313 Toxic Chemicals: None

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product derived from the product should be classified as a hazardous waste.

California Proposition 65: The chemical(s) noted below are contained in this product and are known to the state of California to cause cancer, birth defects or other reproductive harm:

CAS No.
14808-60-7

Chemical Name
Crystalline Silica

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Comments: This Material Safety Data Sheet and the information it contains are offered to you in good faith as accurate. We have reviewed any information contained in this datasheet, which we received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of this product in a manner that might infringe existing patents. No warranty is made, either express or implied.

Legend

ACGIH – American Conference of Governmental Hygienists	NTP – National Toxicology Program
CAS (#) – Chemical Abstracts Service	OSHA – Occupational Safety and Health Administration
CERCLA – Comprehensive Environmental Response, Compensation and Liability Act	PEL – Permissible Exposure Limit
DOT – Department of Transportation	RCRA – Resource Conservation and Recovery Act
DSL – Domestic Substance List	SARA – Superfund Amendments and Reauthorization Act
EPA – Environmental Protection Agency	STEL – Short Term Exposure Limit
HMIS – Hazardous Materials Information System	TLV – Threshold Limit Value
IARC – International Agency for Research on Cancer	TSCA – Toxic Substances Control Act
MPPCF – Million Particles per Cubic Foot	TWA – Time Weighted Average
NFPA – National Fire Protection Agency	VOC – Volatile Organic Compound
NIOSH – National Institute for Occupational Safety and Health	WHMIS – Workplace Hazardous Materials Information System