



321, H2, Hydraulic Cement, TP Mortar, SLU, Flow-Top HD, Multi-Purpose Thinset Mortar, STR Mortar Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Form: Mixture

Product Name: US SPEC 321; US SPEC Hydraulic Cement; US SPEC TP Mortar; US SPEC SLU; US SPEC Flow-Top HD; US SPEC Multi-Purpose Thinset Mortar, STR Mortar

Synonyms: None

Product Uses: Various Industrial Uses

Manufacturer: US MIX Co.
112 South Santa Fe Drive
Denver, CO 80223
Telephone: 303-778-7227
Fax: 303-722-8426

Emergency Contact: CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS-US classification

Acute toxicity: 4 (Oral)

Skin irritation: 2

Serious eye damage: 1

Skin sensitization: 1

Carcinogenicity: 1A

Specific target organ toxicity - single exposure 3

Specific target organ toxicity - repeated exposure 1

GHS-US labeling

Hazard pictograms (GHS-US):



Signal word (GHS-US):

Danger

Hazard statements (GHS-US):

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-US):

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents and container in accordance with all local, regional, national and international regulations.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Percent
Crystalline Silica	14808-60-7	30-60
Portland Cement	65997-15-1	10-40
Calcium Aluminate	65997-16-2 ¹	1-30
Calcium Oxide	1305-78-8 ²	1-15
Limestone	1317-65-3	1-15

¹ US SPEC Hydraulic Cement; TP Mortar; SLU; Flow-Top

² US SPEC TP Mortar; H2

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: FIRST AID MEASURES

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.

SECTION 5: FIRE FIGHTING MEASURES

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 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store material on pallets in a dry location. Avoid contact with eyes or skin.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:

INGREDIENT	OSHA PEL	ACGIH TLV	OTHER LIMITS
Portland Cement	10 mg/m ³	10 mg/m ³	50 MPPCF
Crystalline Silica	10 mg/m ³	0.1 mg/m ³	NA
Limestone	5 mg/m ³	10 mg/m ³	NA
Calcium Aluminate	5 mg/m ³	5 mg/m ³	NA
Calcium Oxide	5 mg/m ³	2 mg/m ³	NA

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.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

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 9: PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: NA

INCOMPATIBILITY (MATERIALS TO AVOID): NA

HAZARDOUS DECOMPOSITION (BYPRODUCTS): NA

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

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

HEALTH HAZARDS

ACUTE TOXICITY/EFFECTS: Harmful if swallowed

Crystalline Silica 14808-60-7	
LD50 Oral Rat	500 mg/kg

Calcium Aluminate 65997-16-2	
LD50 Oral Rat	>2000 mg/kg

Calcium Oxide 1305-78-8	
LD50 Oral Rat	500 mg/kg

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.

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

EYE CONTACT: May cause burning and corneal edema.

GERM CELL MUTAGENICITY: Based on available data, the classification criteria are not met.

CARCINOGENICITY: May cause cancer.

Crystalline Silica 14808-60-7	
IARC Group	1
National Toxicity Program (NTP) Status	2

REPRODUCTIVE TOXICITY: Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): May cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Causes damage to lungs through prolonged or repeated exposure. (Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.)

ASPIRATION HAZARD: Based on available data, the classification criteria are not met.

SYMPTOMS/INJURIES AFTER INHALATION: May cause respiratory tract irritation.

SYMPTOMS/INJURIES AFTER SKIN CONTACT: Causes skin irritation. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitization by skin contact.

SYMPTOMS/INJURIES AFTER EYE CONTACT: Causes serious eye damage. May cause burns in the presence of moisture. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

SYMPTOMS/INJURIES AFTER INGESTION: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

OTHER INFORMATION: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

Calcium Aluminate 65997-16-2	
EC50 Crustacean Toxicity	6.6 mg/L (48 hr. Daphnia magna)
LC50 Fish Toxicity	>100 mg/L (96 hr. Oncorhynchus mykiss)
ECr50 Algae Toxicity	5.6 mg/L (72 hr. Pseudokirchnerella subcapitata)

Persistence and degradability

No data available

Elimination information

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

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SECTION 13: DISPOSAL CONSIDERATIONS

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.

SECTION 14: TRANSPORT INFORMATION

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 15: 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.	Chemical Name
14808-60-7	Crystalline Silica

SECTION 16: OTHER INFORMATION

DATA SOURCES: SDS prepared by US MIX Co. pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SDS REVISION DATE: 5/7/2015

HMIS: Health 1; Flammability 0; Reactivity; 0

Comments: This 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 expressed or implied.