



# Liso

## Safety Data Sheet

Date of issue: 1/2019      Supersedes: 1/2019

Version: 1.1

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Form:** Mixture

**Product Name:** US SPEC Liso

**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

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### 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. May form combustible dust concentrations in air.

**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. 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. Keep away from heat/sparks/open flames/hot surfaces. No smoking. 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.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS No.	Percent
Limestone	1317-65-3	30-50
Portland Cement	65997-15-1	20-40
Calcium Oxide	1305-78-8	10-30
Calcium Aluminate	65997-16-2	1-10
Calcium Sulfate	7778-18-9	1-10
Crystalline Silica	14808-60-7	<1

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:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

**SPECIAL FIRE FIGHTING PROCEDURES (HAZARDOUS COMBUSTION PRODUCTS):** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not permit dust to accumulate. when suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. dust can be ignited by static discharge. Dense smoke is produced when product burns.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Isolate area. Keep upwind of spill. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

**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. Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Keep container closed. Use with adequate ventilation.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****AIRBORNE EXPOSURE LIMITS:**

INGREDIENT	OSHA PEL	ACGIH TLV
Portland Cement	5 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Crystalline Silica	.05 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)****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 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

**FLAMMABILITY (solid, gas):** May form combustible dust concentrations in air

**VAPOR DENSITY (AIR = 1):** NA

**WATER SOLUBILITY:** Negligible

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 2.2

**OTHER SOLUBILITIES:** None Known

**pH:** NA

**VOC CONTENT:** 0 g/L

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** NA

**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid contact with oxidizing materials. Avoid contact with strong acids.

**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

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

<b>Crystalline Silica 14808-60-7</b>	
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.**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.**SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)**

<b>Crystalline Silica 14808-60-7</b>	
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

**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.



**WARNING:** This product can expose you to chemicals including Silica, crystalline (airborne particles of respirable size) which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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**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:** 3/21/2019

**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.