

## Flexline LM Plus Mortar SAFETY DATA SHEET

**1. IDENTIFICATION**

**Product Identifier:** Flexline LM Plus Mortar

**Product Code:**

**Recommended use:** Floor Surfacing

**Manufacturer Name:** Dur-A-Flex, Inc.  
95 Goodwin Street  
East Hartford, CT 06108

**Telephone number:** 860-528-9838

**Emergency phone number:** 1-800- 424-9300 (CHEMTREC)

**Date of Preparation:** July 28, 2019

**2. HAZARD(S) IDENTIFICATION**

**Classification:**

Physical	Health
Not Hazardous	Skin Irritation Category 2 Eye Damage Category 1 Carcinogenicity Category 1A Specific Target Organ Toxicity – Repeat Exposure Category 1

**Labeling:**

**Danger!**



**Hazard statement(s)**

Causes skin irritation.  
Causes serious eye damage.  
May cause cancer by inhalation.  
Causes damage to lungs through prolonged or repeated inhalation exposure.

**Precautionary statement(s)**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves, protective clothing and eye protection.  
IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention.  
Take off contaminated clothing and wash it before reuse.  
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 or doctor.  
IF exposed or concerned: Get medical attention.  
Store locked up.  
Dispose of contents and container in accordance with local and national regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Silica, Fused	60676-86-0	60-90%
Tricalcium Silicate	12168-85-3	>10%
Crystalline Silica	14808-60-7	>10%
Fused Calcium Aluminate	65997-16-2	>10%
Tetracalcium Aluminoferrite	12068-35-8	>1%
Calcium Sulfate hexahydrate	26499-65-0	>1%

**The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.**

### 4. FIRST-AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial ventilation. Get medical attention if irritation persists.

**Skin contact:** Remove contaminated clothing and launder before reuse. Wash skin with a cool water and pH-neutral soap. Get medical attention if irritation develops or persists.

**Eye contact:** Immediately flush eyes with large quantities of water for at least 20 minutes, holding the eyelids apart. Get immediate medical attention.

**Ingestion:** If swallowed, drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**Most important symptoms/effects, acute and delayed:** Dust may cause eye irritation or burns. May cause skin irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis), kidney damage and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure

**Indication of immediate medical attention and special treatment, if necessary:** If eye burns occur, get immediate medical attention. For ingestion, get medical attention.

### 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use media appropriate to the surrounding fire.

**Specific hazards arising from the chemical:** None known.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing as described in Section 8.

**Environmental precautions:** Report releases as required by local and federal authorities.

**Methods and materials for containment and cleaning up:** Collect using dustless method and place in appropriate container for use or disposal. Do not use compressed air.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with the eyes and skin. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after use.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

**Conditions for safe storage, including any incompatibilities:** Keep dry until ready to use. Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines:

Silica, Fused	80 mg/m <sup>3</sup> /% SiO <sub>2</sub> TWA OSHA PEL
Tricalcium Silicate (as calcium silicate)	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Crystalline Silica	0.05 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 0.025 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction)
Fused Calcium Aluminate (as particulates not otherwise classified)	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Tetracalcium Aluminoferrite (as particulates not otherwise classified)	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Calcium Sulfate hexahydrate	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 10 mg/m <sup>3</sup> (inhalable) TWA ACGIH TLV

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Refer to the OSHA Silica Standards for additional information (1910.1-53 or 1926.1153).

### Individual protection measures, such as personal protective equipment:

**Respiratory protection:** If the exposure limits are exceeded a NIOSH approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory

equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice. Refer to the OSHA Silica Standards for additional information (1910.1-53 or 1926.1153).

**Skin protection:** Impervious/abrasive resistant gloves are recommended to prevent skin contact.

**Eye protection:** Chemical safety goggles are recommended to prevent eye contact.

**Other:** Impervious clothing as needed to avoid skin contact and contamination of personal clothing. An eye wash should be available in the immediate work area. If clothing becomes contaminated with dust or wet mortar, remove and launder before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** Gray powder

**Odor:** Slight odor

<b>Odor threshold:</b> Not available	<b>pH:</b> Not applicable
<b>Melting Point/Freezing Point:</b> 3110°F / 1710°C	<b>Boiling Point:</b> Not applicable
<b>Flash point:</b> Not flammable or combustible	<b>Evaporation rate:</b> Not applicable
<b>Flammability (solid, gas):</b> Not flammable or combustible	
<b>Flammable limits: LEL:</b> Not applicable	<b>UEL:</b> Not available
<b>Vapor pressure:</b> Not applicable	<b>Vapor density:</b> Not applicable
<b>Relative density:</b> >2.75 @ 20°C	<b>Solubility(is):</b> Slightly soluble in water
<b>Partition coefficient: n-Octanol/water:</b> Not applicable	<b>Auto-ignition temperature:</b> Not applicable
<b>Decomposition temperature:</b> Not available	<b>Viscosity:</b> Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions of use.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

**Conditions to avoid:** None known.

**Incompatible materials:** Avoid contact with acids and strong oxidizers.

**Hazardous decomposition products:** None known.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

**Ingestion:** Large amounts may cause gastrointestinal irritation with nausea and diarrhea.

**Skin contact:** Contact cause skin irritation.

**Eye contact:** Dust may cause severe irritation or burns. Permanent eye damage is possible.

**Chronic effects from short- and long-term exposure:** Chronic inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Silica exposure is also associated with kidney disease and certain autoimmune disorders.

**Reproductive Toxicity:** None of the components greater than 0.1% have been shown to cause reproductive or developmental toxicity.

**Sensitization:** Components are not skin or respiratory sensitizers.

**Mutagenicity:** None of the components have been shown to cause germ cell mutagenicity.

**Carcinogenicity:** Crystalline silica quartz is listed as “Carcinogenic to Humans” (Group 1) by IARC, “Known to be a Human Carcinogen” by NTP and classified by OSHA as a carcinogen. None of the other components are listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

**Acute Toxicity Values:**

Fused Silica: Oral rat LD50 >22,500 mg/kg  
 Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg  
 Tricalcium Silicate: No data available  
 Fused Calcium Aluminate: Oral rat LD50 > 2000 mg/kg  
 Calcium Sulfate hexahydrate: Oral rat LD50 > 2000 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data available. Not expected to be harmful to aquatic organisms but releases to the environment should be avoided.

**Persistence and degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative potential:** Not expected to be bioaccumulative.

**Mobility in soil:** No data available.

**Other adverse effects:** None known.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state and federal regulations.

**14. TRANSPORT INFORMATION**

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
<b>DOT</b>	None	Not Regulated	None	None	None
<b>TDG</b>	None	Not Regulated	None	None	None
<b>IMDG</b>	None	Not Regulated	None	None	None
<b>IATA</b>	None	Not Regulated	None	None	None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known

**15. REGULATORY INFORMATION**

**CERCLA:** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Refer to Section 2 for the OSHA Hazard Classification

**SARA 313 Information: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):** None

**California Proposition 65**

This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects): Crystalline silica, quartz (14808-60-7) >10% cancer

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

<b>16. OTHER INFORMATION</b>
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**NFPA Rating:** Health = 3    Flammability = 0    Instability = 0  
**HMIS Rating:** Health = 3\*    Flammability = 0    Physical Hazard = 0

**SDS Revision History:** New SDS  
**Date of preparation:** July 28, 2019  
**Date of last revision:** New SDS

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND USE.