

Poly-Crete Aggregate MD, SL, HF and TF/WR SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier: Poly-Crete Aggregate MD, SL, HF and TF/WR

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: January 13, 2014

2. HAZARD(S) IDENTIFICATION

This product is one part of a 3 part product. Read and understand the hazard information on the SDS for Poly-Crete Resin and Poly-Crete Hardener before using this product.

Classification:

Physical	Health
Not Hazardous	Skin Irritation Category 2 Eye Damage Category 1 Skin Sensitization Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 (Respiratory Irritation) 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 an allergic skin reaction.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

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

Do not breathe dust, fume.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves, protective clothing, eye protection or face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash 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 INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER if you feel unwell.
 IF exposed or concerned: Get medical attention.
 Store in a well-ventilated place. Keep container tightly closed.
 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
Portland Cement	65997-15-1	5-95%
Crystalline Silica	14808-60-7	0-90%
Calcium Sulfate	7778-18-9	0-10%
Iron Oxide	1309-37-1	0-15%
Calcium Carbonate	1317-65-3	0-5%
Magnesium Oxide	1309-48-4	0-5%
Calcium Oxide	1305-78-8	0-5%
Calcium Hydroxide	1305-62-0	0-5%

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 15 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 and skin irritation or burns. Wet cement may cause eye and skin damage. May cause skin sensitization. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) 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 or skin burns occur, get immediate medical attention. For ingestion, get immediate 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:

Portland Cement	5 mg/m ³ TWA OSHA PEL 10 mg/m ³ TWA ACGIH TLV
Crystalline Silica	<u>10 mg/m³</u> TWA OSHA PEL (respirable fraction) % Silica + 2 0.025 mg/m ³ TWA ACGIH TLV (respirable fraction)
Calcium Sulfate	5 mg/m ³ TWA OSHA PEL (respirable fraction) 10 mg/m ³ TWA OSHA PEL (total dust) 10 mg/m ³ TWA ACGIH TLV (inhalable fraction)
Iron Oxide	10 mg/m ³ TWA OSHA PEL (fume) 5 mg/m ³ TWA ACGIH TLV (respirable fraction)
Calcium Carbonate	5 mg/m ³ TWA OSHA PEL (respirable fraction) 10 mg/m ³ TWA OSHA PEL (total dust)
Magnesium Oxide	15 mg/m ³ TWA OSHA PEL (fume total particulate) 10 mg/m ³ TWA ACGIH TLV (inhalable fraction)
Calcium Oxide	5 mg/m ³ TWA OSHA PEL 2 mg/m ³ TWA ACGIH TLV
Calcium Hydroxide	5 mg/m ³ TWA OSHA PEL (respirable fraction) 10 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA ACGIH TLV

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

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.

Skin protection: Alkali/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. A safety shower and eye wash should be available in the immediate work area. If clothing becomes contaminated with dust or wet cement, remove immediately and launder before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Tan granular solid

Odor: No odor

Odor threshold: Not applicable	pH: Not available
Melting Point/Freezing Point: - Not available	Boiling Point: 4000°F / 2204°C
Flash point: Not flammable	Evaporation rate: Not applicable
Flammability (solid, gas): Not flammable or combustible	

Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density: Not applicable
Relative density: >1	Solubility(is): Insoluble
Partition coefficient: n-Octanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	Viscosity: 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: Unintentional contact with water will result in hydration and produce caustic calcium hydroxide.

Incompatible materials: Avoid contact with hydrofluoric acid and oxidizing agents.

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 or burns with nausea and diarrhea.

Skin contact: Contact with dry powder may cause drying of the skin and mild irritation. May cause mechanical irritation. Contact with wet cement may cause irritation with thickening, cracking and fissuring of the skin. Prolonged contact may cause skin burns. May cause allergic skin reaction.

Eye contact: Dust may cause irritation or redness with inflammation of the cornea. May cause mechanical irritation. Direct contact with wet cement or large amounts of dry powder may cause irritation or burns with possible blindness.

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.

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

Sensitization: Portland cement may contain trace amounts of chromium salts or nickel compounds that have been shown to cause sensitization in humans.

Mutagenicity: None of the components greater than 0.1% have been shown to cause germ cell mutagenicity.

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

Acute Toxicity Values:

Portland Cement: No toxicity data available

Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg

Calcium Sulfate: Oral rat LD50 >1581 mg/kg; Inhalation rat LC50 > 2.61 mg/L/4 hr

Iron Oxide: Oral rat LD50 > 10000 mg/kg;

Calcium Carbonate: No toxicity data available

Magnesium Oxide: No toxicity data available

Calcium Oxide: Oral rat LD50 > 2000 mg/kg

Calcium Hydroxide: Oral rat LD50 > 2000 mg/kg; Dermal rabbit LD50 > 2500 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

Portland Cement: No toxicity data available

Iron Oxide: 96 hr LC50 Brachydanio rerio 100000 mg/L; 48 hr EC50 daphnia magna >100 mg/L

Calcium Carbonate: No data available

Magnesium Oxide: No data available

Calcium Oxide: 96 hr LC50 Oncorhynchus mykiss 50.6 mg/L; 48 hr EC50 daphnia magna 49.1 mg/L; 72 hr

EC50 Pseudokirchnerella subcapitata 184.57 mg/L

Crystalline Silica: 72 hr LC50 carp >10,000 mg/L

Calcium Hydroxide: 96 hr LC50 Gasterosteus aculeatus 457 mg/L; 48 hr EC50 daphnia magna 49.1 mg/L; 72 hr

EC50 Pseudokirchnerella subcapitata 184.57 mg/L

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
DOT	None	Not Regulated	None	None	None
TDG	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA	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): Acute Health, Chronic Health

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) 0-95% cancer, Titanium dioxide (13463-67-7) <0.08% (cancer)

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

CANADA:

Canadian WHMIS Classification: Class D Division 2A, Class D Division 2B

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

16. OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 0 Instability = 0

HMIS Rating: Health = 3* Flammability = 0 Physical Hazard = 0

SDS Revision History: All sections revised – Converted to GHS forma

Date of preparation: January 13, 2014

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.