

CREST Flexible®

SECTION 1. PRODUCT IDENTIFICATION

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Trade Name: **CREST FLEXIBLE®**

Description: **Dry Thin-set mortar**

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview: Dust may cause eye, skin and respiratory tract irritation. Product becomes alkaline when exposed to moisture.

Potential Health Effects Eyes: Dust may cause eye irritation.

Potential Health Effects Skin: Dust may cause skin irritation. Wet product exposure can dry the skin, cause alkali burns and affect the mucous membranes.

Potential Health Effects Ingestion: Not considered a likely route of exposure under normal product handling conditions. May cause gastrointestinal harm if swallowed.

Potential Health Effects Inhalation: Dusts may cause respiratory tract irritation. Symptoms of excessive exposure to the dust include shortness of breath and reduced pulmonary function.

Medical Conditions: Hypersensitivity to product, allergies and skin or respiratory disorders.

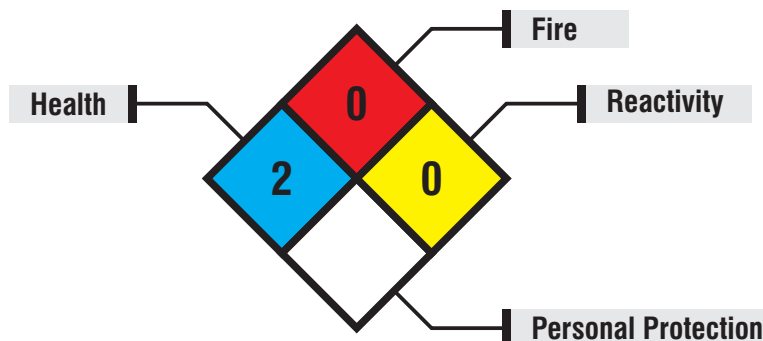
Aggravated by Exposure:

HMIS Ratings:

Pers. Protection:
Safety glasses, gloves.

Hazard Scale:

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



SECTION 3. PRODUCT COMPOSITION

INGREDIENTS	CAS NUMBER	PERCENTAGE	EXPOSURE LIMITS
PORTLAND CEMENT	65997-15-1	15 - 35	OSHA PEL. 5 mg/m ³ TWA (TOTAL) ACGIH TLV: 10 mg/m ³ (TOTAL)
CALCIUM CARBONATE	1317-65-3	85 - 65	OSHA PEL. 5 mg/m ³ TWA (TOTAL) ACGIH TLV: 10 mg/m ³ (TOTAL)
SILICA SAND	14808-60-7	80 - 60	OSHA PEL. 10 mg/m ³ TWA (TOTAL) ACGIH TLV: 10 mg/m ³ (TOTAL)

The rest of the ingredients are not regulated by OSHA and are considered confidential.

SECTION 4. FIRST AID MEASURES

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion

Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

First Aid: Inhalation

Immediately remove the affected person to fresh air. If breathing is difficult, administer oxygen, if not breathing, give artificial respiration. If symptoms persist, get medical attention.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point Method: NA
Lower/Upper Explosion Limits: LEL %: NA ; UEL %: NA
Extinguishing Media: No combustible
Burning Rate: Non-flammable solid

Protective Equipment for Firefighters:

Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

NFPA Ratings:

Health: 2

Fire: 0

Reactivity: 0

Hazard Scale:

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Containment Procedures:

Avoid dust generation

Clean-up Procedures:

If spilled, uses dustless methods (vacuum) and place into covered container for disposal (if not contaminated or wet). Use adequate ventilation to keep exposure to airborne contaminants below the exposure limit.

Evacuation Procedures:

Isolate area. Keep unnecessary personal away.

Special Procedures:

None

SECTION 7. HANDLING AND STORAGE

Handling Procedures:

Do not get this material in contact with skin or eyes. Do not breathe dust from this material. Wash hands after handling and before eating. Keep out the reach of children.

Storage Procedures:

Store in a cool, dry, well-ventilated area. Keep the container tightly closed. Do not freeze.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Component Exposure Limits

Ingredient	OSHA - PEL	ACGIH - TLV
Silica, crystalline, quartz (14808-60-7)	0.1 mg/m ³ TWA (respirable dust)	0.025 mg/m ³ (respirable fraction)
Portland cement (65997-15-1)	10 mg/m ³ TWA(total DUST); 5 mg/m ³ (resp. fraction)	1 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction.
Cement, alumina, chemicals	Not available.	Not available.
Ethylenevinylacetate copolymer	Not available.	Not available.
Calcium formate	Not available.	Not available.

Engineering Controls:

When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits.

Personal Protective Equipment:

Eye/Face Protection:

Wear approved eye protection (properly fitted dust- or splash- proof chemical safety goggles) and face protection (face shield).

Skin and Body Protection:

Wear suitable protective clothing and impervious gloves.

Respiratory Protection:

A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Hygiene Considerations:

Handle according to established industrial hygiene and safety practices.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND COLOR: White Powder, non-odor
BOILING POINT: ND
EVAPORATION RANGE: ND
VAPOUR PRESSURE: ND
FLASH POINT 1.41 gr/cm³
WATER SOLUBILITY (%): Dispersion
MELTING POINT: < 1
VAPOUR DENSITY (AIR=1): ND
VOC (G/Lt.): 0

SECTION 10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid dust generation.

Incompatibility

Not Determined

Hazardous Decomposition

Not Determined

Possibility of Hazardous Reactions

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Dose Effects

A: General Product Information

It may cause eye, skin and respiratory tract irritation. Harmful if swallowed.

B: Component Analysis - LD50/LC50

Quartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

Carcinogenicity

Component Carcinogenicity

Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (respirable size) (Select Carcinogen)

IARC: Monograph 100C [in preparation] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources);
Monograph 68 [1997] (Group 1 (carcinogenic to humans))

Cement, portland, chemicals (65997-15-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

SECTION 12. ECOLOGICAL INFORMATION

Eco toxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Eco toxicity - Aquatic Toxicity

No Eco toxicity data are available for this product's components.

SECTION 13. DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

SECTION 14. TRANSPORTATION INFORMATION

US DOT Information

Shipping Name: Not Regulated

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances list:

Componet	CAS	CA	MA	MN	NJ	PA	RI
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	No
Cement, Portland, Chemicals	65997-15-1	No	Yes	Yes	Yes	Yes	No
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Component Analysis - WHMIS IDL The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Componet	CAS	Minimum Concentration
Quartz	14808-60-7	1%

Additional Regulatory Information

Component Analysis - Inventory

Componet	CAS #	TSCA	CAN	EEC
Quartz	14808-60-7	Yes	DSL	EINECS
Cement, Chemicals	65997-15-1	Yes	DSL	EINECS
Limestone	1317-65-3	Yes	NDSL	EINECS

IMPORTANT

The information offered in good faith as typical values and not as a product specification. No warranty, either expressly or implications about what is written in this document. Industrial hygiene and Safety Management Procedures is suggested to applicables. However, each user should review these recommendations in the specific context and determine whether they are appropriate. Since we do not know the conditions of employment of the user, the information contained in this safety sheet is based, in the state of our knowledge and National Standards.

The product should not be used for other uses than the specified in the data sheet.