

Section 1:

LOTUS R8 Polymer-Modified Repair Mortar

Safety Data Sheet (SDS)

Manufacturer: Advanced Roofing Technologies

Revision Date: 11/20/24

SECTION II: HAZARD IDENTIFICATION

Hazard Classification:

Carcinogen: Category 1A

Skin Corrosion: Category 1B

Skin Sensitization: Category 1B

Specific Target Organ Toxicity (STOT):

Single Exposure: Category 3

Repeated Exposure: Category 1

Signal Word: DANGER

Hazard Statements:

May cause cancer through chronic inhalation.

Causes severe skin burns and serious eye damage.

May cause allergic skin reactions.

Causes damage to lungs through prolonged inhalation.

May cause respiratory irritation.

Precautionary Statements:

Avoid inhalation of dust; use in well-ventilated areas.

Wear protective gloves, clothing, and eye protection.

If exposed: Follow first aid measures.

Dispose of in accordance with regulations.

SECTION III: HAZARDOUS INGREDIENTS

Component	CAS No.	% by Weight
Sand, Silica, Quartz	14808-60-7	40-70%
Portland Cement	65997-15-1	10-30%
Calcium Sulfoaluminate Cement	65997-16-2	10-30%
Calcium Hydroxide	1305-62-0	1-5%
Acrylic Polymer	Non-Hazardous	1-5%

SECTION IV: FIRST AID MEASURES

Inhalation: Move to fresh air. Administer oxygen if needed. Seek medical attention for difficulty breathing.

Skin Contact: Wash with cool water and pH-neutral soap. Seek medical attention for burns or irritation.

Eye Contact: Flush eyes with water for several minutes. Remove contact lenses if applicable.

Ingestion: Do NOT induce vomiting. Drink water and contact a physician immediately.

Most Critical Symptoms:

Skin burns and irritation.

Respiratory irritation and damage.

Eye damage.

Chronic exposure: Silicosis and potential carcinogenic effects.

SECTION V: FIRE-FIGHTING MEASURES

Flammability: Non-flammable.

Suitable Extinguishing Agents: Use agents appropriate for surrounding materials.

Special Hazards: None.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use PPE to avoid contact with skin and eyes. Avoid creating dust.

Clean-Up Methods: Contain and collect material. Prevent from entering waterways. Dispose of per regulations.

SECTION VII: HANDLING AND STORAGE

Handling: Avoid dust inhalation and skin contact. Use appropriate PPE.

Storage: Keep in a dry, ventilated place. Avoid moisture exposure before use.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Silica (Quartz)	0.1 (respirable)	0.025 (respirable)
Portland Cement	5 (respirable)	10 (respirable)

PPE Recommendations:

Hands: Nitrile or PVC gloves.

Eyes: Chemical safety goggles.

Respiratory: NIOSH-approved respirator for dusty environments.

SECTION IX: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Granular solid, gray to gray-brown.

pH (10% solution): 13.

Density: 2.6–3.15 g/cm³.

VOC Content: 0 g/L.

SECTION X: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Incompatible Materials: Avoid strong oxidizers and hydrofluoric acid.

Hazardous By-products: Silica may react with hydrofluoric acid to produce silicon tetrafluoride gas.

SECTION XI: TOXICOLOGICAL INFORMATION

Exposure Routes: Inhalation, skin, eye, ingestion.

Short-Term Effects: Skin burns, eye damage, respiratory irritation.

Long-Term Effects: Silicosis, carcinogenic risks from inhalation.

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity: May harm aquatic environments. Prevent product release into water sources.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Avoid creating airborne dust during disposal.

SECTION XIV: TRANSPORT INFORMATION

DOT/TDG Classification: Not regulated.

SECTION XV: REGULATORY INFORMATION

California Prop 65: **WARNING: Contains chemicals known to cause cancer.**

WHMIS Classification: D2A, D2B, Class E.

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.



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