

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Sto Full Depth Repair Mortar With CI
Product Code: 82311
SDS Manufacturer Number: 82311

Other means of identification:

Synonyms: None.

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Polymer Modified Cementitious Based Repair Mortar with Corrosion Inhibitor.

Chemical manufacturer address and telephone number:

Manufacturer Name: Sto Corp.
Address: 6175 Riverside Drive, SW
 Atlanta, Georgia 30331
General Phone Number: (404) 346-3666

Emergency phone number:

Emergency Phone Number: (800) 424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: WARNING.

GHS Class: Eye Irritation. Category 2.
 Skin Irritation. Category 2.
 Acute Oral Toxicity. Category 4.

Hazard Statements: Causes serious eye irritation.
 Causes skin irritation.
 Harmful if swallowed.

Precautionary Statements: Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 IF ON SKIN: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Specific treatment (see ... on this label).
 Rinse mouth.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: May cause irritation, burns and permanent tissue damage.

Skin: May cause irritation, dry skin, redness, discomfort or burns.

Inhalation: Prolonged or repeated inhalation may cause lung damage.
 Prolonged and repeated inhalation of respirable crystalline silica can cause silicosis, a chronic lung disease characterized by fibrosis and scarring of the lung tissue resulting in a decrease in lung function, breathlessness, wheezing, coughing and sputum production.

Ingestion: May cause irritation. Ingesting large amounts may cause injury.

Signs/Symptoms: Product is alkali when wet, excessive and prolonged exposure can cause severe irritation, burns and permanent tissue damage.

Aggravation of Pre-Existing Conditions: May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Crystalline silica (Quartz)	14808-60-7	30 - 60 by weight	238-878-4
Portland cement	65997-15-1	10 - 30 by weight	266-043-4
Calcium aluminate cement	65997-16-2	5 - 10 by weight	266-045-5
Anhydrite Calcium Sulfate	14798-04-0	1 - 5 by weight	
Calcium sulfate	7778-18-9	1 - 5 by weight	231-900-3
Lithium Carbonate	554-13-2	1 - 5 by weight	209-062-5

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:	Oxides of carbon, oxides of nitrogen and other organic substances may be formed.
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Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
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NFPA Ratings:

NFPA Health:	2
NFPA Flammability:	1
NFPA Reactivity:	0
NFPA Other:	



SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Use proper personal protective equipment as listed in Section 8. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
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Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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Methods and materials for containment and cleaning up:

Methods for containment:	Contain spills with an inert absorbent material such as soil, sand or oil dry.
Methods for cleanup:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.
Special Handling Procedures:	Material is alkaline when mixed with water. Use precaution and proper protective equipment
<u>Conditions for safe storage, including any incompatibilities:</u>	
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.
<u>Specific end use(s):</u>	
Work Practices:	Use good laboratory practice when working with chemicals. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Crystalline silica (Quartz):

Guideline ACGIH: TLV-TWA: 0.025 mg/m³ (R)

Portland cement:

Guideline ACGIH: TLV-TWA: 1 mg/m³ (E,R)
TLV-TWA: 1 mg/m³ Respirable fraction (R)
Guideline OSHA: PEL-TWA: 5 mg/m³ Respirable fraction (R)
PEL-TWA: 50 mppcf Total particulate/dust (T)
PEL-TWA: 15 mg/m³ Total particulate/dust (T)

Calcium sulfate:

Guideline ACGIH: TLV-TWA: 10 mg/m³ Inhalable fraction (I)
Guideline OSHA: PEL-TWA: 15 mg/m³ Total particulate/dust (T)
PEL-TWA: 5 mg/m³ Respirable fraction (R)

Lithium Carbonate:

Guideline OSHA: PEL-TWA: 15 mg/m³ Total particulate/dust (T)
PEL-TWA: 5 mg/m³ Respirable fraction (R)

Appropriate engineering controls:

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Otherwise, use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls including use of a biosafety cabinet / fume hood to control airborne levels below recommended exposure limits.

Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Protective laboratory coat, apron, or disposable garment recommended.

Hand Protection Description: Use impervious gloves. Nitrile gloves are recommended.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Follow good industrial hygiene practices when handling this material.

General Hygiene Considerations: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

PPE Pictograms:



Notes : Only established PEL and TLV values for the ingredients are listed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance:	Solid or powder.
Color:	Gray
Odor:	Little to no odor.
Boiling Point:	> 1832 °F (>1000 °C)
Melting Point:	No Data
Specific Gravity:	No Data
Solubility:	0.1 TO 1.0% in water.
Vapor Density:	No Data
Vapor Pressure:	None.
Evaporation Rate:	Not determined.
pH:	No Data
Flash Point:	No information.
Flash Point Method:	Data not available.
Lower Flammable/Explosive Limit:	Data not available.

Upper Flammable/Explosive Limit: Data not available.

Auto Ignition Temperature: Data not available.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur.

Conditions To Avoid:

Conditions to Avoid: Avoid high temperature condition. Avoid contact with incompatible materials.

Incompatible Materials:

Incompatible Materials: Not applicable.

Hazardous Decomposition Products:

Special Decomposition Products: Oxides of carbon, oxides of nitrogen and other organic substances may be formed.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Crystalline silica (Quartz) :

RTECS Number: VV7330000

Inhalation: Inhalation - Rat TCLo - Lowest published toxic concentration : 248 mg/m³/6H [Lungs, Thorax, or Respiration - Other changes Biochemical - Metabolism (intermediary) - Other proteins Biochemical - Metabolism (intermediary) - Effect on inflammation or mediation of inflammation]
Inhalation - Rat TCLo - Lowest published toxic concentration : 248 mg/m³/6H [Lungs, Thorax, or Respiration - Changes in lung weight Immunological Including Allergic - Increase in cellular immune response Biochemical - Metabolism (intermediary) - Effect on inflammation or mediation of inflammation]
Inhalation - Rat TCLo - Lowest published toxic concentration : 200 mg/kg [Lungs, Thorax, or Respiration - Fibrosis, focal (pneumoconiosis) Lungs, Thorax, or Respiration - Other changes Nutritional and Gross Metabolic - Changes in iron]
Inhalation - Mouse TCLo - Lowest published toxic concentration : 40 mg/kg [Lungs, Thorax, or Respiration - Other changes]
Inhalation - Mouse TCLo - Lowest published toxic concentration : 40 mg/kg [Immunological Including Allergic - Decrease in cellular immune response]
Inhalation - Rat TCLo - Lowest published toxic concentration : 1 mg/kg (RTECS)

Ingestion: Oral - Rat TDLo - Lowest published toxic dose : 120 gm/kg [Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes] (RTECS)

Chronic Effects: Prolonged and repeated inhalation of respirable crystalline silica can cause silicosis, a chronic lung disease characterized by fibrosis and scarring of the lung tissue resulting in a decrease in lung function, breathlessness, wheezing, coughing and sputum production.

Carcinogenicity: Crystalline silica in the form of quartz or cristobalite dust causes cancer of the lung.. Normal application procedures for this product pose no hazard as to the release of crystalline silica dust, but grinding or sanding dried films of this product may yield some respirable crystalline silica.

Lithium Carbonate :

RTECS Number: OM2470000

Inhalation: Inhalation - Rat TCLo - Lowest published toxic concentration : 76 mg/m³/4H [Cardiac - Pulse rate increase without fall in BP Liver - Liver function tests impaired Kidney/Ureter/Bladder - Other changes in urine composition]
Inhalation - Rat TCLo - Lowest published toxic concentration : 76 mg/m³/4H [Blood - Changes in serum composition (e.g., TP, bilirubin, cholesterol) Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Phosphatases] (RTECS)

Ingestion: Oral - Mouse LD50 - Lethal dose, 50 percent kill : 7000 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill : 8000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines. Triple-rinse drum prior to offering for recycle, reconditioning or disposal. Dispose of rinsate in an environmentally acceptable manner consistent with applicable waste management.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.
 DOT Hazard Class: Non regulated.
 IATA Shipping Name: Non regulated.
 IMDG UN Number : Non regulated.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

SARA: This product contains chemicals which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III (40CFR, Part 372).
California PROP 65: 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.

Crystalline silica (Quartz) :

TSCA Inventory Status: Listed
 Canada DSL: Listed
 EC Number: 238-878-4

Portland cement :

TSCA Inventory Status: Listed
 Canada DSL: Listed
 EC Number: 266-043-4

Calcium aluminate cement :

TSCA Inventory Status: Listed
 Canada DSL: Listed
 EC Number: 266-045-5

Calcium sulfate :

TSCA Inventory Status: Listed
 Canada DSL: Listed
 EC Number: 231-900-3

Lithium Carbonate :

TSCA Inventory Status: Listed
 Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
 California PROP 65: Listed: developmental.
 Canada DSL: Listed
 EC Number: 209-062-5

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2
 HMIS Fire Hazard: 0
 HMIS Reactivity: 0
 HMIS Personal Protection: X

Health Hazard	2
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

SDS Creation Date: August 16, 2013
 SDS Revision Date: October 26, 2016
 MSDS Revision Notes: Format Update
 SDS Format:

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