

SAFETY DATA SHEET

**SECTION 1 : IDENTIFICATION**

Product identifier used on the label:  
**Product Name:** Sto Powerflex Silco Freeform  
**Product Code:** 80288  
**SDS Manufacturer Number:** 80288



Other means of identification:  
**Synonyms:** None.

Recommended use of the chemical and restrictions on use:  
**Product Use/Restriction:** Waterbased Acrylic Coating.

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.

**Hazard Statements:** Causes serious eye irritation.  
 Causes skin irritation.

**Precautionary Statements:** Wash hands thoroughly after handling.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 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).  
 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.  
 Collect spillage.  
 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.  
**Skin:** May cause irritation.  
**Inhalation:** Prolonged or excessive inhalation may cause respiratory tract irritation.  
**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
**Target Organs:** Eyes. Skin. Respiratory system. Digestive system.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Acrylic polymer	No Data	10 - 30 by weight	

Acrylic polymer	No Data	10 - 30 by weight	
Calcium carbonate	1317-65-3	30 - 60 by weight	215-279-6
Crystalline silica (Quartz)	14808-60-7	1 - 5 by weight	238-878-4
Crystalline Silica (Cristobalite)	14464-46-1	1 - 5 by weight	238-455-4
Diatomaceous Earth, Flux-Calcined	68855-54-9	1 - 5 by weight	272-489-0
Naphtha	64742-88-7	0.1 - 1.0 by weight	265-191-7
Titanium Oxide	13463-67-7	0.1 - 1.0 by weight	236-675-5
Undisclosed/Non-hazardous	No Data	5 - 10 by weight	
Water	7732-18-5	10 - 30 by weight	231-791-2

#### SECTION 4 : FIRST AID MEASURES

##### Description of necessary measures:

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

##### Most important symptoms/effects, acute and delayed:

**Other First Aid:** First Responders should provide for their own safety prior to rendering assistance.

#### SECTION 5 : FIRE FIGHTING MEASURES

##### Suitable and unsuitable extinguishing media:

<b>Suitable Extinguishing Media:</b>	Use dry chemical or foam when fighting fires involving this material. Water mist may be used to cool closed containers.
<b>Unusual Fire Hazards:</b>	Material may spatter above 100 °C/212 °F.

##### Special protective equipment and precautions for fire-fighters:

<b>Protective Equipment:</b>	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire Fighting Instructions:</b>	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

##### NFPA Ratings:

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0



#### SECTION 6 : ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures:

**Personal Precautions:** Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

##### Environmental precautions:

**Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways.

##### 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, aerosol or mist.

**Hygiene Practices:** Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

**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. Store away from direct heat or sunlight, sources of UV radiation, peroxides, or free radicals. Do not store in temperatures above 49°C (120 °F) or below 9°C (48 °F). Keep away from direct sunlight.

Specific end use(s):

**Work Practices:** Handle in accordance with good industrial hygiene and safety practices.

**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

EXPOSURE GUIDELINES:

Crystalline silica (Quartz):

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

Crystalline Silica (Cristobalite):

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

Diatomaceous Earth, Flux-Calcined:

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

Titanium Oxide:

**Guideline ACGIH:** TLV-TWA: 10 mg/m3

Appropriate engineering controls:

**Engineering Controls:** Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

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:** Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

**Hand Protection Description:** Nitrile rubber or natural rubber 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:** Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

**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:** Liquid.  
**Odor:** Slight.  
**Boiling Point:** Not determined.  
**Melting Point:** 0°C (32°F)  
**Specific Gravity:** > 1  
**Solubility:** Miscible in water.  
**Vapor Density:** Not determined.  
**Vapor Pressure:** Not determined.  
**Percent Volatile:** Data not available.



Evaporation Rate:	Not determined.
pH:	7.5 - 10
Flash Point:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Auto Ignition Temperature:	Not determined.

## SECTION 10 : STABILITY and REACTIVITY

### Chemical Stability:

**Chemical Stability:** Stable under recommended handling and storage conditions.

### Possibility of hazardous reactions:

**Hazardous Polymerization:** Hazardous polymerization does not occur.

### Conditions To Avoid:

**Conditions to Avoid:** Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 0°C (32°F).

### Incompatible Materials:

**Incompatible Materials:** Water reactive materials.

### Hazardous Decomposition Products:

**Special Decomposition Products:** Thermal decomposition can lead to release irritant fumes and toxic gases.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

#### Calcium carbonate :

**RTECS Number:** EV9580000

**Inhalation:** Inhalation - Rat TCLo - Lowest published toxic concentration : 250 mg/m<sup>3</sup>/2H/24W (Intermittent) [ Lungs, Thorax, or Respiration - Fibrosis, focal (pneumoconiosis) ]  
Inhalation - Rat TCLo - Lowest published toxic concentration : 84 mg/m<sup>3</sup>/4H/40W (Intermittent) [ Lungs, Thorax, or Respiration - Fibrosis (interstitial) Liver - Other changes Kidney/Ureter/Bladder - Other changes ] (RTECS)

#### Crystalline silica (Quartz):

**RTECS Number:** VV7330000

**Inhalation:** Inhalation - Rat TCLo - Lowest published toxic concentration : 248 mg/m<sup>3</sup>/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/m<sup>3</sup>/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)

**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.

#### Crystalline Silica (Cristobalite):

**RTECS Number:** VV7325000

**Inhalation:** Inhalation - Mouse TCLo - Lowest published toxic concentration : 43 mg/m<sup>3</sup>/5H/9D (Intermittent) [ Lungs, Thorax, or Respiration - Pleural effusion Lungs, Thorax, or Respiration - Other changes ]  
Inhalation - Mouse TCLo - Lowest published toxic concentration : 70 mg/m<sup>3</sup>/5H/12D (Intermittent) [ Lungs, Thorax, or Respiration - Fibrosis, focal (pneumoconiosis) Lungs, Thorax, or Respiration - Fibrosis (interstitial) Lungs, Thorax, or Respiration - Other changes ] (RTECS)

**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.

#### Naphtha :

**RTECS Number:** WJ8930000

**Inhalation:** Inhalation - Rat TCLo - Lowest published toxic concentration : 1100 mg/m<sup>3</sup>/6H/16D (Intermittent) [ Kidney/Ureter/Bladder - Other changes Kidney/Ureter/Bladder - Kidney tumors ]  
Inhalation - Mouse TCLo - Lowest published toxic concentration : 550 mg/m<sup>3</sup>/6H/16D (Intermittent) [ Nutritional and Gross Metabolic - Weight loss or decreased weight gain ] (RTECS)

**Titanium Oxide :**

**RTECS Number:** XR2275000

**Inhalation:** Inhalation - Rat TCLo - Lowest published toxic concentration : 1 mg/kg [ Lungs, Thorax, or Respiration - Other changes Biochemical - Metabolism (intermediary) - Effect on inflammation or mediation of inflammation ] (RTECS)

**Ingestion:** Oral - Rat TDLo - Lowest published toxic dose : 60 gm/kg [ Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes ] (RTECS)

**Carcinogenicity:** (a) Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as paints.

**SECTION 12 : ECOLOGICAL INFORMATION**

Ecotoxicity:

**Ecotoxicity:** No environmental information found for this product.

**Environmental Fate:** No environmental information found for this product.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Description of waste:

**Waste Disposal:** Dispose of in accordance with Local, State, Federal and Provincial regulations.

**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 does not contain any 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.

**Canada WHMIS:** Xi - Irritant.

**EU Class:** Irritant.  
In accordance to Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

**Risk Phrases:** R36/37/38 - Irritating to eyes, respiratory system and skin.

**Safety Phrase:** S23 - Do not breathe gas/fumes/vapour/spray.  
S37 - Wear suitable gloves.

Calcium carbonate :

**TSCA Inventory Status:** Listed

**EC Number:** 215-279-6

Crystalline silica (Quartz) :

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**EC Number:** 238-878-4

Crystalline Silica (Cristobalite) :

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**EC Number:** 238-455-4

Diatomaceous Earth, Flux-Calcined :

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**EC Number:** 272-489-0

**Naphtha:**

TSCA Inventory Status: Listed  
Canada DSL: Listed  
EC Number: 265-191-7

**Titanium Oxide:**

TSCA Inventory Status: Listed  
Canada DSL: Listed  
EC Number: 236-675-5

**Water:**

TSCA Inventory Status: Listed  
Canada DSL: Listed  
EC Number: 231-791-2

**SECTION 16 : ADDITIONAL INFORMATION**

**HMIS Ratings:**

HMIS Health Hazard: 1\*  
HMIS Fire Hazard: 1  
HMIS Reactivity: 0  
HMIS Personal Protection: X

Health Hazard	1*
Fire Hazard	1
Reactivity	0
Personal Protection	X

\* Chronic Health Effects

SDS Creation Date: July 08, 2013  
SDS Revision Date: October 26, 2016  
SDS Revision Notes: Format Update  
SDS Format:

**Disclaimer:**

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