



## Solution 425 Food Grade Pipe Thread Sealant

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## 1. PRODUCT AND COMPANY IDENTIFICATION

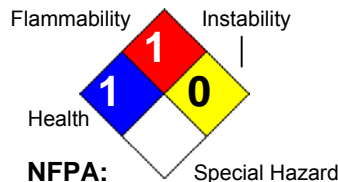
**Product Code:** L-12969  
**Product Name:** Solution 425 Food Grade Pipe Thread Sealant  
**Company Name:** MRO Solutions, LLC  
 5645 W. Howard St.  
 Niles, IL 60714  
**Phone Number:** +1 (847)588-2480  
**Web site address:** <http://www.mrosolutions.com/>  
**Emergency Contact:** CHEMTREC +1 (800)424-9300

## 2. HAZARDS IDENTIFICATION

### Serious Eye Damage/Eye Irritation, Category 2B

**GHS Signal Word:** **Warning**  
**GHS Hazard Phrases:** H320 - Causes eye irritation.  
**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
**GHS Response Phrases:** P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.  
**GHS Storage and Disposal Phrases:** No phrases apply.

### Hazard Rating System:



### Potential Health Effects (Acute and Chronic):

Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. This product contains encapsulated silicon dioxide (quartz, silica). No exposure to free, respirable silica is anticipated during normal use of this product. Free, respirable silica has been listed as a confirmed human carcinogen by NTP and IARC. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Silica may be released by grinding or machining of coated materials. Use NIOSH-approved dust/mist respirator when grinding or machining coated items.

**Inhalation:** No hazard expected in normal industrial use. May cause irritation to the respiratory tract.  
**Skin Contact:** Prolonged and/or repeated contact may cause irritation and/or dermatitis.  
**Eye Contact:** Dust may cause mechanical irritation. May cause tearing, redness, and swelling.  
**Ingestion:** No hazard expected in normal industrial use. May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
112945-52-5	Silica, amorphous treated	1.00 %
12001-26-2	Mica-group minerals	10.0 %
14807-96-6	Talcum	16.0 %



## 4. FIRST AID MEASURES

### Emergency and First Aid Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Get medical attention if irritation persists. Wash contaminated clothing separately before reuse.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Call a poison control center.
<b>Signs and Symptoms Of Exposure:</b>	Symptoms may not be readily apparent. Get medical advice/attention.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

## 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	NA
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , or appropriate foam. Smother to exclude air. Handle as an oil fire, Class B fire procedures.
<b>Unsuitable Extinguishing Media:</b>	DO NOT USE WATER!
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
<b>Flammable Properties and Hazards:</b>	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not empty into drains. Material that cannot be recovered or reused should be disposed of in accordance with all Federal, State and Local regulations.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Spills/Leaks: Provide ventilation. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

## 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.
	Do not reuse empty containers without first having them commercially cleaned or



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reconditioned. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

**Precautions To Be Taken in Storing:**

Store in a cool, dry place. Store in well-ventilated place. Store away from heat. Store in a tightly closed container. Keep container closed when not in use.

**Other Precautions:**

Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
112945-52-5	Silica, amorphous treated	No data.	No data.	No data.
12001-26-2	Mica-group minerals	PEL: 706 ppm/20 mppcf	TLV: 3 mg/m <sup>3</sup> (R)	No data.
14807-96-6	Talcum	PEL: 706 ppm/20 mppcf	TLV: 2 mg/m <sup>3</sup> (non-asbestos)	No data.

**Respiratory Equipment (Specify Type):**

Not required under normal use conditions. Avoid breathing vapors or dusts. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

**Eye Protection:**

Safety glasses, chemical goggles, and/or face shield should be worn.

**Protective Gloves:**

Not required under normal use conditions. Solvent resistant gloves required for prolonged or repeated contact.

**Other Protective Clothing:**

Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron.

**Engineering Controls (Ventilation etc.):**

Use adequate general or local exhaust ventilation to minimize exposure levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Work/Hygienic/Maintenance Practices:**

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [ ] Liquid [X] Solid	
<b>Appearance and Odor:</b>	Appearance: Off-white. Paste. Odor: Slight. Petroleum-like.	
<b>Melting Point:</b>	NA	
<b>Boiling Point:</b>	NA	
<b>Autoignition Pt:</b>	No data.	
<b>Flash Pt:</b>	NA	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Specific Gravity (Water = 1):</b>	1.03	
<b>Density:</b>	NA	
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA	
<b>Vapor Density (vs. Air = 1):</b>	Heavier than air	
<b>Evaporation Rate:</b>	Slower than ether	
<b>Solubility in Water:</b>	Nil	



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Saturated Vapor Concentration: NA  
 Viscosity: NA  
 pH: NA  
 Percent Volatile: No data.

## 10. STABILITY AND REACTIVITY

**Stability:** Unstable [  ] Stable [  ]  
**Conditions To Avoid - Instability:** High temperatures.  
**Incompatibility - Materials To Avoid:** None known.  
**Hazardous Decomposition or Byproducts:** High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.  
**Possibility of Hazardous Reactions:** Will occur [  ] Will not occur [  ]  
**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** Epidemiology: No information available.  
 Teratogenicity: No information available.  
 Reproductive Effects: No information available.  
 Mutagenicity: No information available.  
 Neurotoxicity: No information available.  
 Other Studies: CAS # 112945-52-5:  
 Acute toxicity, LD50, Oral, Rat, 3160 mg / kg.

**Irritation or Corrosion:** Other Studies: CAS# 14807-96-6:  
 Standard Draize Test, Skin, Species: Human, 300ug, 3D.

**Carcinogenicity/Other Information:** This product contains encapsulated silicon dioxide (quartz, silica). No exposure to free, respirable silica is anticipated during normal use of this product. Free, respirable silica has been listed as a confirmed human carcinogen by NTP and IARC. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Silica may be released by grinding or machining of coated materials. Use NIOSH-approved dust/mist respirator when grinding or machining coated items.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

## 12. ECOLOGICAL INFORMATION

**General Ecological Information:** Environmental: No information available.  
 Physical: No information available.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.



### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

### 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not regulated as a hazardous material.

**DOT Hazard Class:**

**UN/NA Number:**

### 15. REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
112945-52-5	Silica, amorphous treated	No	No	No
12001-26-2	Mica-group minerals	No	No	No
14807-96-6	Talcum	No	No	No

**CAS # Hazardous Components (Chemical Name)**

**Other US EPA or State Lists**

112945-52-5	Silica, amorphous treated	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
12001-26-2	Mica-group minerals	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1659; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
14807-96-6	Talcum	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1773; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

**CAS # Hazardous Components (Chemical Name)**

**International Regulatory Lists**

112945-52-5	Silica, amorphous treated	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
12001-26-2	Mica-group minerals	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
14807-96-6	Talcum	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes

### 16. OTHER INFORMATION

**Revision Date:** 05/14/2015

**Preparer Name:** Crystal Maira

**Additional Information:** No data available.

**Company Policy or**

**Disclaimer:**

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.