

## Siloxseal 210

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Siloxseal 210  
**Common Name:** Molybdenum Disulfide containing Alkyl Silicone Resin  
**SDS Number:** A73  
**Revision Date:** 6/28/2015  
**Version:** 1  
**Chemical Family:** Polysiloxane  
**Product Use:** Water Based Dry Film Lubricant  
**Supplier Details:** Coatings For Industry, Inc.  
 319 Township Line Road  
 Souderton, PA 18964  
**Emergency:** Infotrac  
**Contact:** USA: 1-800-535-5053 / International :352-323-3500  
**Phone:** 215-723-0919  
**Fax:** 215-723-0911  
**Email:** cs@cficoatings.com  
**Web:** www.cficoatings.com

## 2 HAZARDS IDENTIFICATION

## Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Inhalation  
 Health, Specific target organ toxicity - Single exposure, 3  
 Health, Reproductive toxicity, 2

## GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



## GHS Hazard Statements:

H332 - Harmful if inhaled  
 H336 - May cause drowsiness or dizziness  
 H361 - Suspected of damaging fertility or the unborn child

## GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
 P233 - Keep container tightly closed.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 - Wash hands thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

## Siloxseal 210

P308+313 - IF exposed or concerned: Get medical advice/attention.  
 P331 - Do NOT induce vomiting.  
 P332+313 - If skin irritation occurs: Get medical advice/attention.  
 P362 - Take off contaminated clothing and wash before reuse.  
 P403+233 - Store in a well ventilated place. Keep container tightly closed.  
 P501 - Dispose of contents/container in accordance with existing federal, state and local environmental control laws.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	%	Chemical Name
0	20-25%	Polydimethylsiloxane/ phenylsilsequioxane
7732-18-5	42.5-58.6%	water
35435-21-3	0.5-2.5%	Silane, triethoxy(2,4,4-trimethylpentyl)-
1317-33-5	10-20%	Molybdenum sulfide (MoS <sub>2</sub> )
25498-49-1	1-2%	Propanol, [2-(2-methoxymethylethoxy)methylethoxy]-

### 4 FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and footwear immediately, and wash before reuse. Discard clothing and footwear which cannot be decontaminated. Wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. Get medical attention if needed.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get immediate medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get prompt, qualified medical attention.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** Greater Than 212°F

**Flash Point Method:** Tag Closed Cup

This product is considered combustible and is a fire hazard. It supports combustion and decomposes under fire conditions to give off toxic materials. Do not Pour, spill or store near heat, spark sources, or open flames.

#### Fire Fighting Techniques

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use carbon dioxide, dry chemical or foam type extinguishing media.

### 6 ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Control the source of the spill if it is safe to do so.

Make sure all personnel involved in the spill cleanup follow good occupational protective measures (refer to Section VII-Occupational Protective Measures).

Absorb spills with sand or Fuller's earth. Sweep up and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, state, and federal laws and regulations regarding disposal, spill, cleanup, removal, or discharge.

Prevent material from entering sewers or surface waters. Observe local/state/federal regulations.

## Siloxseal 210

7

**HANDLING AND STORAGE****Handling Precautions:**

Precautions for safe handling:  
Ensure adequate ventilation. Must be syphoned off in situ.  
Handle with care and avoid spillage on the floor ( slippage). Wash thoroughly after handling. Use approved containers only.

**Storage Requirements:**

Store in cool, dry, well ventilated area. Keep away from heat, sparks and open flame. Never use a welding or cutting torch on or near any container (even empty) as an explosion can occur.

Keep container closed, even when empty.

Protect from freezing.

8

**EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls:**

Engineering Controls: When the need for engineering controls is indicated by the conditions under which the product is used, one or more of the following techniques may be selected to limit employee exposure: general ventilation, local exhaust ventilation, enclosure or confinement of operation, and./or process isolation with remote control operation.

**Personal Protective Equipment:**

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Components with workplace control parameters****Molybdenum sulfide (MoS<sub>2</sub>) (1317-33-5)**

TWA 15 mg/m<sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants

TWA 10 mg/m<sup>3</sup> USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA 3 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values (TLV)

TWA 10 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values (TLV)

**Propanol, [2-(2-methoxymethylethoxy)methylethoxy]- (25498-49-1):** no data available

## Siloxseal 210

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Gray	<b>Odor:</b>	mild
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Miscible
<b>Spec Grav./Density:</b>	1.12-1.20	<b>Percent Volatile:</b>	60-70% by volume
<b>pH:</b>	5.5-7.5	<b>VOC:</b>	45g/l

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat, flames and sparks
<b>Hazardous Decomposition:</b>	SiO <sub>2</sub> , CO, CO <sub>2</sub> , formaldehyde and various hydrocarbon fragments
<b>Hazardous Polymerization:</b>	Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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No specific toxicological data on product.

**Components with toxicological data:**

**Molybdenum sulfide (MoS<sub>2</sub>) (1317-33-5)**

Information on toxicological effects

Acute toxicity:

Oral LD<sub>50</sub> Inhalation LC<sub>50</sub> LC<sub>50</sub> Inhalation - rat - 4 h - > 2,820 mg/m<sup>3</sup> Remarks: Lungs, Thorax, or Respiration:Other changes.

Dermal LD<sub>50</sub> no data available

Other information on acute toxicity

Skin corrosion/irritation: Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: QA4697000

**Propanol, [2-(2-methoxymethylethoxy)methylethoxy]- (25498-49-1) [10-20%]**

Information on toxicological effects

Acute toxicity:

LD<sub>50</sub> Oral - rat - 3,200 mg/kg

## Siloxseal 210

Inhalation: LC0 >30ppm (Rat, 8hr)  
 Dermal: LD50 15,400mg/kg (Rabbit)  
 Skin corrosion/irritation: no data available  
 Serious eye damage/eye irritation: no data available  
 Respiratory or skin sensitisation: no data available  
 Germ cell mutagenicity: no data available  
 Carcinogenicity:  
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available  
 Specific target organ toxicity - single exposure: no data available  
 Specific target organ toxicity - repeated exposure: no data available  
 Aspiration hazard: no data available  
 RTECS: UB8070000

12

**ECOLOGICAL INFORMATION**

No specific ecological data on product.  
 Components with ecological data:

**Molybdenum sulfide (MoS<sub>2</sub>) (1317-33-5)**

Information on ecological effects  
 Toxicity: no data available  
 Persistence and degradability: no data available  
 Bioaccumulative potential: no data available  
 Mobility in soil: no data available  
 PBT and vPvB assessment: no data available  
 Other adverse effects: no data available

**Propanol, [2-(2-methoxymethylethoxy)methylethoxy]- (25498-49-1) [10-20%]**

Information on ecological effects  
 Toxicity: no data available  
 Persistence and degradability: 60%, Rapidly degradable  
 Bioaccumulative potential: no data available  
 Mobility in soil: 68.8 mN/m, 1,000mg/l at 20 °C  
 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
 Other adverse effects: no data available

13

**DISPOSAL CONSIDERATIONS**

Waste Disposal Method  
 Waste disposal should be in accordance with existing federal, state and local environmental control laws

Empty Container Precautions  
 Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

Siloxseal 210

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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Non-hazardous for air, sea and road freight.

<b>15</b>	<b>REGULATORY INFORMATION</b>
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Component (CAS#) [%] - CODES

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 Polydimethylsiloxane/ phenylsilsesquioxane (0) [20-25%] TSCA

Water (7732-18-5) [42.5-58.6%] TSCA

Silane, triethoxy(2,4,4-trimethylpentyl)- (35435-21-3) [0.5-2.5%] TSCA

Molybdenum sulfide (MoS<sub>2</sub>) (1317-33-5) [10-20%] TSCA

Propanol, [2-(2-methoxymethylethoxy)methylethoxy]- (25498-49-1) [1-2%] TSCA

Regulatory CODE Descriptions

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 TSCA = Toxic Substances Control Act

<b>16</b>	<b>OTHER INFORMATION</b>
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