

Siloxseal 350

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Siloxseal 350
Common Name: Alkyl Silicone Resin
SDS Number: A104
Revision Date: 10/13/2017
Version: 1
Chemical Family: Polysiloxane
Product Use: Water Based Coating
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):

Physical, Flammable Liquids, 3
 Health, Reproductive toxicity, 2

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H226 - Flammable liquid and vapour
 H361 - Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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
 P240 - Ground/bond container and receiving equipment.
 P241 - Use explosion-proof electrical/ventilating/light/equipment.
 P242 - Use only non-sparking tools.
 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.

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Continue rinsing.

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
7732-18-5	40.5-55.5%	Water
35435-21-3	0.5-2.5%	Silane, triethoxy(2,4,4-trimethylpentyl)-
0	40-50%	Polydimethylsiloxane
108-65-6	4-7%	2-Propanol, 1-methoxy-, acetate
108-88-3	<0.3%	Toluene

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:	115°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.

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HANDLING AND STORAGE**Handling Precautions:**

Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ.
Precautions against fire and explosion:
Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

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.

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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:

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. Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: > 480 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 79 min Material tested: Camatril (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses 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, Flame retardant antistatic protective 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.

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Components with workplace control parameters

2-Propanol, 1-methoxy-, acetate (108-65-6)

TWA 50 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Toluene (108-88-3)

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
375 mg/m³

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
560 mg/m³

TWA 200 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.12- 1967

CEIL 300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.12- 1967

Peak 500 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2 Z37.12- 1967

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)

Visual impairment

Female reproductive

Pregnancy loss

2010 Adoption

Substances for which there is a Biological Exposure Index or Indices (see BEI section)

Not classifiable as a human carcinogen

TWA 100 ppm USA. NIOSH Recommended Exposure Limits
375 mg/m³

ST 150 ppm USA. NIOSH Recommended Exposure Limits
560 mg/m³

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white/opaque

Physical State: Liquid

Spec Grav./Density: 1.1

pH: approx. 7

Odor: mild

Solubility: Miscible

Percent Volatile: 55% by weight

Flash Point: 115°F

VOC: 115g/l

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STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions.

Conditions to Avoid: Heat, flames and sparks

Hazardous Decomposition: SiO₂, CO, CO₂, formaldehyde and various hydrocarbon fragments

Hazardous Polymerization: Will not occur.

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TOXICOLOGICAL INFORMATION

No specific toxicological data on product.

Components with toxicological data:

2-Propanol, 1-methoxy-, acetate (108-65-6)

Information on toxicological effects

Acute toxicity:

Oral LD50: (Rat) 6,190mg/kg

Inhalation LC50: (Rat, 6hr) >4345ppm

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Dermal LD50: (Rabbit) > 5,000 mg/kg

Other information on acute toxicity:

Skin corrosion/irritation: (Rabbit, 24hr) No skin irritation

Serious eye damage/eye irritation: (Rabbit) Very Slight

Respiratory or skin sensitisation: Maximisation Test - guinea pig - Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity: no data available

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: 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

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

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:

Toluene (108-88-3)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - > 5,580 mg/kg

LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m³

LD50 Dermal - rabbit - 12,196 mg/kg

no data available

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: rat Liver DNA damage

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

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: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation:

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Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Experiments have shown reproductive toxicity effects in male and female laboratory animals.
Developmental Toxicity - rat - Oral:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available

Additional Information:

RTECS: XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and

ulcerous lesions of the penis, prepuce, and scrotum in animals.

Stomach - Irregularities - Based on Human Evidence

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ECOLOGICAL INFORMATION

No specific ecological data on product.

Components with ecological data:

2-Propanol, 1-methoxy-, acetate (108-65-6)

Information on ecological effects

Toxicity:

Toxicity to fish mortality LC50 - *Salmo gairdneri* - 100 - 180 mg/l - 96 h. Method: OECD Test Guideline 203Toxicity to daphnia Immobilization EC50 - *Daphnia magna* (Water flea) - > 500 mg/l - 48 h.

and other aquatic Method: Tested according to Annex V of Directive 67/548/EEC. invertebrates

Persistence and degradability: Biodegradability Biotic/Aerobic Result: 100 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: Biochemical Oxygen 0.36 mg/l Demand (BOD)

Chemical Oxygen 1.74 mg/g Demand (COD)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

Toluene (108-88-3)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 7.63 mg/l - 96 h.NOEC - *Pimephales promelas* (fathead minnow) - 5.44 mg/l - 7 dToxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 8.00 mg/l - 24 h.Immobilization EC50 - *Daphnia magna* (Water flea) - 6 mg/l - 48 hToxicity to algae EC50 - *Chlorella vulgaris* (Fresh water algae) - 245.00 mg/l - 24 h.EC50 - *Pseudokirchneriella subcapitata* (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

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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.

14 TRANSPORT INFORMATION

UN1263, Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, 3, PGIII

*If quantity is in a non bulk packaging (less than 119 gallons), this material ships as DOT non regulated unless the liquid is a hazardous substance or a hazardous waste.

IMO/IMDG: UN1263, Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, 3, PGIII

ICAO/IATA: UN1263, Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, 3, PGIII

Hazard Label: Flammable Liquid

Hazard Placard: Flammable Liquid

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Water (7732-18-5) [40.5-55.5%] TSCA

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

Polydimethylsiloxane (0) [40-50%] TSCA

2-Propanol, 1-methoxy-, acetate (108-65-6) [4-7%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

TSCA = Toxic Substances Control Act

GADSL = Global Automotive Declarable Substance List (GADSL)

REACH = REACH List of Substances of Very High Concern (RSL)

16 OTHER INFORMATION

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