

# SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: December 21, 2015

SPI 05049-AB, 05052-AB, 05053-AB  
Vacseal® Vacuum Leak Sealant With Brush,  
Original Formula Clear

## Section 1: Identification

Chemical Name/Synonyms ..... Vacseal® Vacuum Leak Sealant With Brush, Original Formula Clear

Chemical family ..... Silicone resin solution of chlorinated and non-chlorinated organic solvents

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name ..... Vacseal® Vacuum Leak Sealant, Original

CAS #'s ..... 79-01-6; 1330-20-7; 100-41-4;

Chemical Formula..... Silicone resin solution of chlorinated and non-chlorinated organic solvents

## Emergency Overview

OSHA Hazards

Flammable Liquid, Carcinogen, Irritant, Target Organ Effect, Mutagen, Harmful by skin absorption

Target Organs

Liver, Kidney, Pancreas, Blood, Central nervous system, Heart, Lungs, Eyes, Ears

GHS Classification

Flammable liquid (Category 3)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Oral (Category 5)

Acute toxicity, Dermal (Category 4)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Germ cell mutagenicity (Category 2)

Carcinogenicity (Category 1B)

Specific organ toxicity – single exposure (Category 2)

Specific organ toxicity – repeated exposure (Category 2)

Acute aquatic toxicity (Category 2)

Chronic aquatic toxicity (category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word: Danger

Hazard statement(s):

- H226 Flammable liquid & vapor
- H303 May be harmful if swallowed.
- H312 + H332 Harmful if in contact with skin or inhaled
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H350: May cause cancer.
- H371: May cause damage to organs.
- H401 Toxic to aquatic life.
- H41: Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

- P210 Keep away from heat, sparks, open flames, hot surfaces – no smoking.
- P233 Keep container cool.
- P235 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment
- P241 Use explosion proof electrical, ventilating, lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/ eye protection/ face protection.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313: If exposed or concerned: Get medical advice/ attention.
- P403 Store in a well-ventilated area.

Hazardous Material Information System USA

- Health ..... 2
- Fire Hazard ..... 3
- Physical Hazard..... 0
- Personal Protection .....

NFPA Rating (estimated)

- Health ..... 2
- Flammability..... 3
- Reactivity ..... 1

## Section 2: Composition

CAS #	Ingredient Name	Concentration, %	EINECS#
79-01-6	Trichloroethylene	30-60 %	201-167-4
1330-20-7	Xylene	15-30 %	215-535-7
100-41-4	Ethyl benzene	5 - <15 %	202-849-4
proprietary mixture	Silicone Polymers	15-25%	not available

## Section 3: Hazard Identification

**Potential health effects (acute and chronic):**

**Routes of entry:**

**Eye:** Direct contact irritates slightly with redness and swelling.

### Health Hazards

**(acute and chronic):** The degree of injury depends on the duration of exposure.

**Inhalation:** Vapors may injure lungs, blood, liver, kidneys, and nervous system.

**Skin:** A single relatively short exposure irritates. Repeated prolonged contact irritates seriously. Over exposure may irritate internally.

**Ingestion:** Small amounts transferred to the mouth by fingers should not injure. Swallowing large amounts will injure seriously.

**Signs and symptoms of exposure:**

Prolonged over exposure may injure lungs, kidneys, liver, blood, and nervous system and aggravate existing eye, skin and respiratory disorders.

**Medical condition aggravated by exposure:**

Short vapor exposure may cause drowsiness and irritate throat.

**Routes of entry:** Inhalation, ingestion or skin contact.

**Carcinogenicity:**

Not determined

## Section 4: First Aid Measures

**Emergency and first aid procedures:**

Take proper precautions to ensure your own health and safety before attempting to rescue and providing first aid. These practices include

avoiding all unnecessary exposure and removal of the material from eye, skin and clothing.

**Inhalation:**

If symptoms are experienced, move victim to fresh air, if symptoms persist, obtain medical attention. Medical assistance should be obtained at once.

**Eye contact:**

Wash eyes with clean low pressure water for fifteen minutes. Seek medical assistance without delay. After all, this is a leak sealant and one should not have curing silicone in their eyes.

**Skin contact:**

If the polymer should contact the skin, wipe off and wash with plenty of water.

**Ingestion:**

This route of exposure is not anticipated. However, cured silicone resins are not perceived to be highly toxic in the body. Nevertheless, get medical attention immediately. Do not induce vomiting. Prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person.

**Section 5: Fire Fighting Measures**

**Fire Extinguishing Media:**

Dry Chemical, water fog, foam, carbon dioxide, other

**Special Firefighting Procedure:**

Wear self-contained breathing apparatus due to thermal decomposition of products and protective clothing should be worn.

**Unusual Fire and explosion hazards:**

Vapors are heavier than air and can travel along the ground to remote areas.

**Fire And Explosion Hazard Data**

Flash Point..... 62°F (16.7°C) Pensky Martens closed cup

Flammable Limits in Air... Flammable limit in air, % by vol.  
(trichloroethylene)

LEL (Lower Explosive Limit) : Unknown

UEL (Upper Explosive Limit) : Unknown

**Section 6: Accidental Release Measures**

**Personal Precautions:**

Avoid skin and eye contact; avoid breathing vapor, mist, dust or fumes. Keep container closed. Do not take internally.

**Environmental Precautions:**

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Spill Response:**

Remove all sources of ignition and wear protective equipment. Use absorbent material to collect and contain for salvage or disposal. Use chemical splash goggles and chemically resistant gloves. Use respiratory protection unless exhaust ventilation is adequate or air sample data exposures are within TLV and PEL guidelines. Remove contaminated clothing and shoes as soon as practical and clean before reuse.

**Section 7: Handling and Storage****Handling Precautions:**

Use with adequate ventilation. Traces of benzene (carcinogen) may form if heated in air above 149 °C. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Avoid skin and eye contact. Avoid breathing vapor. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking, or smoking.

**Storage Conditions:**

Keep container closed and away from heat. Do not store near flame or other source of ignition.

**Section 8: Exposure Controls and Personal Protection****Industrial Hygiene Standards:**

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Trichloroethylene	79-01-6	OSHA PEL 100 ppm (TWA) ACGIH TLV 50 ppm (TWA) 100 ppm (STEL)
Xylene	1330-20-7	OSHA PEL 100 ppm (TWA) ACGIH TLV 100 ppm (TWA) 150 ppm (STEL)
Ethylbenzene	100-41-4	OSHA PEL 100 ppm (TWA) ACGIH TLV 100 ppm (TWA) 125 PPM (STEL)

**Engineering Controls:**

Local ventilation – recommended  
General ventilation – recommended

**Personal Protective Equipment:****Respiratory:**

Use appropriate respiratory (Organic Vapor/Dust/Mist) protection unless adequate local exhaust ventilation is provided or air sampling data show exposure is within exposure guidelines.

**Eye:**

Use Chemical Splash Goggles.

**Skin:**

Use protective clothing, Chemical resistant gloves, and long sleeves.

**Hygiene Measures:**

Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse.

## **Section 9: Physical and Chemical Properties**

Physical Form . . . . . Liquid  
Color . . . . . Colorless to pale yellow  
Odor..... Solvent Odor  
Boiling Point.(Trichloroethylene).. > 100°C  
Formula Weight..... Not determined  
Coeff. of Water/Oil Dist. Not determined  
pH (Liquids Only)..... Not determined  
% Volatile By Volume..... Not determined  
Melting Point..... Not determined  
Flash Point..... 62°F (16.7°C) Pensky Martens closed cup  
Autoignition temperature ..... Not determined  
Explosive properties ..... No  
Oxidizing properties ..... No  
Vapor Pressure (Trichloroethylene).at 20°C..... Not determined  
Vapor Density/Air is 1... Not determined  
Solubility In Water..... Not determined  
Specific Gravity (Trichloroethylene) at 25°C (77°F)... (H2O = 1): 1.010  
Evaporation Rate..... (n-butyl acetate = 1): Not determined  
Viscosity . . . . . 105 cSt

## **Section 10: Stability and Reactivity**

**Stability:** Stable

**Reactivity:**

Conditions to avoid:	None
Materials to avoid:	Oxidizing material can cause a reaction.
Hazardous Decomposition:	Carbon oxides and traces of incompletely burned carbon compounds.
Hazardous Polymerization:	Does not occur.
Products:	Silicone dioxide, Metal oxides, Formaldehyde.

## **Section 11: Toxicological Information**

**Possible health effects:** Refer to Section 3

**Sensitizing effects:** None known.  
**Mutagenic effects:** None known.  
**Reproductive effects:** None known.  
**Carcinogenic effects:** None known.  
**Other Health Hazard:** No known applicable information.

## ***Section 12: Ecological Information***

### **Environmental Fate and Distribution:**

Organic solvents may evaporate into the atmosphere, where they degrade. Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.

### **Environmental Effects:**

No adverse effects on aquatic organisms are predicted.  
Bio-accumulation: Potential to bio-accumulate.

### **Fate and effects in Waste Water Treatment Plants:**

No adverse effects on bacterial are predicted. The siloxanes in this product do not contribute to the BOD. The organic solvents in the product are poorly biodegradable.

## ***Section 13: Disposal Considerations***

**Product Disposal:** Dispose of in accordance with all federal, state and local regulations.

**Package Disposal:** Dispose of in accordance with all federal, state and local regulations.

## ***Section 14: Transport Information***

Proper Shipping Name: Silicone resin solution  
DOT Hazard Class: Flammable Liquid 3  
UN/NA ID: UN 1866  
Packing Group: II  
Labels: Not Regulated  
Marine Pollutant: Probably not because of its very low solubility in water of the final cured resin.  
Other solvents evaporate quite quickly.  
DOT Status: Regulated

## ***Section 15: Regulatory Information***

**TSCA:** All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

**TSCA 12(b):** none

**SARA Title 3:**

**SARA Codes:**

CAS# 100-41-4 Ethyl benzene: immediate, delayed, fire

**Section 311/312:**

Acute: yes Chronic: yes      Fire: no    Pressure: no      Reactivity: no

**Section 313:**

This material contains CAS# 100-41-4, Ethyl benzene, which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**CERCLA Hazardous Substances and their Reportable Quantities:**

Component	Reportable Quantity
Ethyl benzene	1000 lb final RQ; 454 kg final RQ

**Clean Air Act:**

CAS# 79-01-6 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

CAS# 79-01-6 is listed as a Hazardous Substance under the CWA.

CAS# 79-01-6 is listed as a Priority Pollutant under the Clean Water Act.

CAS# 79-01-6 is listed as a Toxic Pollutant under the Clean Water Act.

**STATE RIGHT TO KNOW LISTS:**

CAS# 79-01-6 is listed on CA, NJ, MA, MN, PA

CAS# 1330-20-7 is listed on CA, NJ, MA, MN, PA

CAS# 100-41-4 is listed on CA, NJ, MA, MN, PA

**WGK(Water Danger/Protection):**

CAS# 79-01-6: 3

CAS# 1330-20-7: 2

CAS# 100-41-4: 1

California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

79-01-6 Trichloroethylene

100.41.4 Ethyl benzene

California No Significant Risk:

CAS# 79-01-6 is listed.

**WHMIS:**

CAS# 79-01-6 Trichloroethylene: D1B, D2B

CAS# 1330-20-7 Xylene: n/a

CAS# 100-41-4 Ethyl benzene: B2, D1B, D2B

**DSL/NDSL LIST:**

CAS# 79-01-6 is on the DSL List

CAS# 1330-30-7 is on the DSL List

**CAS# 100-41-4 is on the DSL List**



## **Section 16: Other Information**

### **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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