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Material Safety Data Sheet

SPI # 05049-AB, 05050-AB, 05052-AB, 05053-AB

Vacseal[®] High Vacuum Leak Sealant

Section 1 Identification

Date Effective June 7, 2010 (most recent revision)

Chemical Name/Synonyms

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

SPI #05049-AB, 05052-AB, 05053-AB, 05050-AB Vacseal[®] High Vacuum Leak Sealant

Section 2: Composition

Non-hazardous Components: Ingredient Name Concentration, % Silicone polymers 15-25%

| Hazardous Com <u>r</u> CAS # | ponents: 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 |

NFPA Rating(estimated) Health 2; Flammability 3; Reactivity 1
HMIS: Health: 2; Flammability: 1; Reactivity: 3; Contact: 3

Section 3 Hazard Identification

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Potential health effects (acute and chronic):
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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 | f 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:

| 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.

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

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Flash Point..... Not Determined
Flammable Limits in Air... Flammable limit in air, % by vol.
(trichloroethylene)
    LEL (Lower Explosive Limit) : Unknown
    UEL (Upper Explosive Limit) : Unknown
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Section 6: Accidental Release Measures

Spill Response:

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

Section 7: Handling and Storage

Section 8: Exposure Controls and Personal Protection

Handling and Storage:

Do not store neat heat of flame or other source of ignition (e.g. Electrical wiring or motors).

Use protective rubber or plastic gloves when handling to avoid skin contact. Always use proper eye protection. Keep protective clothing in good clean condition and clean thoroughly after each use.

Engineering Controls:

Use only in well ventilated area in order to prevent the build up of vapors or fumes.

Personal Protection:

| Inhalation: | Use appropriate respiratory protection when using the product in aerosol form. Avoid breathing the vapors of the product. |
|-------------|---|
| Skin: | Use protective clothing such as long sleeves or a lab coat. |
| Eye: | Always use safety glasses, preferably chemical goggles when using any form of this product. |

Section 9: Physical and Chemical Properties

| Physical Form | Liquid |
|------------------------------|---|
| Color | Colorless to pale yellow |
| Boiling Point.(Trichloroethy | vlene) 760 mm Hg : 86.7°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 applicable |
| Vapor Pressure (Trichloroeth | ylene).at 20°C Not determined |
| Vapor Density/Air is 1 | Not determined |
| Solubility In Water | Less than 0.1% |
| Appearance and Color | Clear colorless liquid, typically mildly sweet odor |
| Specific Gravity (Trichloroe | thylene) at 25°C $(77°F)$ $(H2O = 1): 1.010$ |
| Evaporation Rate | (n-butyl acetate = 1): Not determined |
| Odor | Mildly sweet |
| Viscosity | 105 cSt |

Section 10: Stability and Reactivity

Stable: Yes

Hazardous Polymerization:

2/26/2014

Does not occur.

Hazardous Decomposition Products:

COx (Carbon Dioxide / Carbon Monoxide), silicon dioxide and incompletely burned carbon based products.

Conditions to avoid:

Heat and high temperatures.

Materials to avoid:

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Oxidizing and caustic alkalis can cause a reaction under certain conditions.
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Section 11: Toxicological Information

Hazardous Components:

| CAS # | Ingredient Name | OSHA PEL | ACGIH TLV | ACGIH STEL |
|-----------|-------------------|----------|-----------|------------|
| 79-01-6 | Trichloroethylene | 100ppm | 50ppm | 100ppm |
| 1330-20-7 | Xylene | 100ppm | 100ppm | 150ppm |
| 100-41-4 | Ethyl benzene | 100ppm | 100ppm | 150ppm |

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 o | f 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 12: Ecological Information

Exotoxicity:

Exotoxicity is expected to be low based the fact that solvents evaporate quickly and the silicone polymerizes into an inert

substance with virtually no water solubility. No other information is known on this topic.

Environmental Fate:

No information found in our selected references.

Bioaccumulation:

Not expected to occur.

Section 13: Disposal Considerations

Disposal considerations:

All local, state, federal or other regulations concerning health and pollution should be reviewed to determine approved disposal procedures.

Section 14: Transport Information

Non-aerosol form of the product:

| 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 |
| DOT Status: | Regulated |
| Packing Group: Labels: Marine Pollutant: | II Not Regulated Probably not because of its very low solubility in water of the final cured resin. Other solvents evaporate quite quickly. |

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).

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2/26/2014
                                         SPI Supplies - MSDS Safety-Vacseal High Vacuum Leak Sealant
 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
             Trichloroethvlene
 100.41.4
            Ethyl benzene
 California No Significant Risk:
 CAS# 79-01-6 is listed.
 CANADA:
 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
 European/International Regulations
 European Labeling in Accordance with EC Directives
 Hazard Symbols:
                         Xn Harmful
         T Toxic
                                         F Flammable
 Risk Phrases:
         R10 Flammable
         R20 Harmful by inhalation
         R21 Harmful in contact with skin
         R36 Irritating to eyes
         R38 Irritating to skin
         R45 May cause cancer
         R52 Harmful to aquatic organisms
         R53 May cause long-term adverse effects in the aquatic environment
         R67 Vapors may cause drowsiness and dizziness
 Safety Phrases
         S2 Keep out of reach of children
         S16 Keep away from sources of ignition - NO SMOKING
         S24 Avoid contact with skin
         S25 Avoid contact with eyes
         S29 Do not empty into drains
         S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
         S53 Avoid exposure - obtain special instructions before use
         S61 Avoid release to the environment. Refer to special instructions/Safety data sheets
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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 of fluids.

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ON-LINE) To Ask a Question or Make a Comment

ON-LINE <u>To Place an Order or Request a Quote</u>

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