Distributor: SPI Supplies / Structure Probe Inc.

206 Garfield Avenue West Chester, PA 19380

Phone: 610-436-5400; 1-800-242-4774

Fax: 610-436-5755 Email: sales@2spi.com

SPI Catalog #'s: 05049-AB, 05052-AB, 05053-AB

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product

identifier Product · Vacseal® High Vacuum Leak Sealant, Liquid

Name Synonyms

· Vacseal® Vacuum Leak Sealant, Liquid, with brush, Clear

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) Primarily used for sealing leaks in high and ultra-high vacuum systems.

1.3 Details of the supplier of the safety data sheet

Manufacturer Space Environment Labs-Vacseal Inc.

4949 N. Broadway Boulder Colorado 80304

www.vacseal.net 1-303-443-4090

1.4 Emergency telephone number

• 1-(800)-424-9300 - Chemtrec

1-(703)-741-5970 - Worldwide

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

CLP Aspiration 1 - H - 304

Skin Irritation 2 - H315 Eye Irritation 2 - H319

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

Germ Cell Mutagenicity 2 - H341 Carcinogenicity 1B - H350

Specific Target Organ Toxicity Repeated Exposure 2 - H373 Hazardous to the aquatic environment Chronic 3 - H412

2.2 Label Elements

CLP

Warning





Hazard statements

H303 - Harmful if swallowed.

H312 – Harmful if in contact with skin. H320 – Harmful if in contact with eyes. H335 – May cause respiratory irritation. H336 – May cause drowsiness, dizziness.

H361 – Suspect of damaging unborn child.

Precautionary statements

Prevention P201 - Obtain

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P233 - Keep container tightly closed.

P235 - Keep cool.

P260 - Do not breathe mist, vapors or spray.

P264 - Wash thoroughly after handling. P271 - Use only in a well-ventilated area.

P273 - Avoid rélease to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P281 - Use personal protective equipment as required.

Response

P370+P378 - In case of fire: Use appropriate media for extinction.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353 – IF ON SKIN, remove with acetone, wash with soap/water.

P321 - Specific treatment, see supplemental first aid information. P362 - Take off contaminated clothing and wash before reuse. P332+P313 - If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention. P301 - IF SWALLOWED: Immediately call a POISON CENTER.

P310 – IF Swallowed contact a physician.

P331 - Do NOT induce vomiting.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P235 - Keep cool.

P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

2.3 Other Hazards

CLP

 According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Aspiration 1 Skin Irritation 2 Eye Irritation 2

Specific Target Organ Toxicity Single Exposure 3 Respiratory Tract Irritation 3 Specific Narcotic Effects 3

Germ Cell Mutagenicity 2 Carcinogenicity 1A Reproductive Toxicity 1B

Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements OSHA HCS 2012

Warning





Hazard statements

H303 – Harmful if swallowed.

H312 – Harmful if in contact with skin. H320 – Harmful if in contact with eyes. H335 – May cause respiratory irritation. H336 – May cause drowsiness, dizziness. H361 – Suspect of damaging unborn child.

Precautionary statements

Prevention Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep container tightly closed.

Keep cool.

Do not breathe mist, vapors or spray. Wash thoroughly after handling. Use only in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response In case of fire: Use water spray to extinguish.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/PHYSICIAN if you feel unwell.

If on skin: remove with acetone and wash with plenty of soap and water.

Specific treatment; see supplemental first aid information. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

continue rinsing.

If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER.

Do NOT induce vomiting, call a physician.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Dispose of content and/or container in accordance with local, regional, national, and

international regulations.

2.3 Other hazards OSHA HCS 2012

 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance.

3.2 Mixtures

	Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Trichloro- ethylene	CAS:79-01-6 EC Number:201- 167-4 EU Index:602- 027-00-9	30% TO 60%	Skin-Rabbit LD50 • >20 g/kg Inhalation-Rat LC50 • 140700 mg/m³ 1 Hour(s) Ingestion/Oral-Rat LD50 • 4920 mg/kg	EU CLP: Annex VI, Table 3.1: Carc. 1B, H350; Muta. 2, H341; Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Aquatic Chronic 3, H412 OSHA HCS 2012: Carc. 1A; Muta. 2; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3: Narc.; Repr. 2; Asp. Tox. 1	NDA
Xylene	CAS:1330-20-7 EC Number:215- 535-7 EU Index:601- 022-00-9	15% TO 30%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (InhI); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (InhI); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.	NDA
Silicone Polymers	Proprietary	15% TO 25%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Ethylbenzene	CAS:100-41-4 EC Number:202- 849-4 EU Index:601- 023-00-4	5% TO 15%	Ingestion/Oral-Rat <u>LD50 • 3500 mg/kg</u> Skin-Rabbit LD50 • 17800 μL/kg	EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373 (Ears, InhI); Asp. Tox. 1, H304 OSHA HCS 2012: Flam. Liq. 2; Acute Tox. 4 (InhI); Eye Irrit. 2; Carc. 2 (InhI); Repr. 2 (InhI); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (InhI); STOT RE 2 (Ear, InhI); Asp. Tox. 1	NDA

See Section 16 for full text of H-statements.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

Skin

Wash skin with soap and water. Remove contaminated clothing. If irritation develops and persists, get medical attention.

In case of contact with substance, immediately flush eyes with running water for Eye

at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Do NOT induce vomiting. Ingestion

Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Consideration should be given to the possibility that overexposure to materials

other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media water fog or spray, dry chemical

Unsuitable Extinguishing

Media

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

Containers may explode when heated.

Vapors may form explosive mixtures when combined other vapors.

Most vapors are heavier than air. They will spread along ground and collect in low or

confined areas (sewers, basements, tanks).

Vapors combine and travel to source of ignition and

flash back.

5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA). Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions Personal Protective Equipment: Respirator and exhaust ventilation, protective

googles, protective gloves and protective clothing.

Emergency Procedures Use absorbent material to contain and collect spill, wear PPE above.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up

Measures

Contain and collect spill with absorbent materials wearing PPE. Place wet absorbent material in container, contact local authorities for Haz-Mat waste disposal.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling Use only in well ventilated areas. Wear appropriate personal protective equipment.

Do not breathe mist, vapors or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking.

7.2 Conditions for safe storage, including any incompatibilities

Storage Store in a tightly closed container at room temperature.

7.3 Specific end use(s) Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines					
	Result	ACGIH	NIOSH	OSHA	
Ethylbenzene	TWAs	20 ppm TWA	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	
(100-41-4)	STELs	Not established	125 ppm STEL; 545 mg/m3 STEL	Not established	
Xylene	TWAs	100 ppm TWA	Not established	100 ppm TWA; 435 mg/m3 TWA	
(1330-20-7)	STELs	150 ppm STEL	Not established	Not established	
	Ceilings	Not established	Not established	200 ppm Ceiling	
Trichloroethylene (79-01-6)	TWAs	10 ppm TWA	Not established	100 ppm TWA	
(. 0 0 . 0)	STELs	25 ppm STEL	Not established	Not established	

8.2 Exposure controls

Engineering Measures/Controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

Personal Protective Equipment

Respiratory Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a

NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are

experienced.

Eye/Face/Hands Wear protective splash safety goggles, protective chemical gloves/clothing.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration STEL = Short Term Exposure Limits are based on 15-minute exposures TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Colorless to pale yellow liquid with solvent odor.
Color	Colorless to pale yellow.	Odor	Solvent odor.
Odor Threshold	Data lacking		
General Properties	-	-	
Boiling Point	> 100 °C(> 212 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	= 1.01 @ 25 °C(77 °F) Water=1 (Trichloroethylene)	Water Solubility	Data lacking
Viscosity	105 Centistoke (cSt, cS) or mm2/sec	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			•
Flash Point	>60°C closed cup methodology	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reaction

Not classified as a reactivity hazard.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Ethylene, trichloro- (30% TO 60%)	79- 01-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4920 mg/kg; Inhalation-Rat LC50 • 140700 mg/m³ 1 Hour(s); Skin-Rabbit LD50 • >20 g/kg; Irritation: Eye-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Ingestion/Oral-Mouse TDLo • 22.4 mg/kg 32 Week(s)-Continuous; Liver.Hepatitis (hepatocellular necrosis), diffuse; Skin and Appendages:After systemic exposure:Dermatitis, other; Immunological Including Allergic:Autoimmune; Inhalation-Mouse TCLo • 500 ppm 4 Week(s)-Intermittent; Liver.Hepatitis (hepatocellular necrosis), zonal; Endocrine:Other changes; Immunological Including Allergic:Decrease in humoral immune response; Inhalation-Rat TCLo • 500 ppm 182 Day(s)-Intermittent; Kidney, Ureter, and Bladder:Interstitial nephritis; Kidney, Ureter, and Bladder:Renal function tests depressed; Mutagen: Sperm Morphology • Inhalation-Mouse • 100 ppm; Reproductive: Ingestion/Oral-Rat TDLo • 1140 mg/kg (14D pre-21D post); Reproductive Effects:Specific Developmental Abnormalities:Central nervous system; Ingestion/Oral-Rat TDLo • 76 mg/kg (multigenerations); Reproductive Effects:Specific Developmental Abnormalities:Urogenital system; Reproductive Effects:effects on Newborn:Growth statistics (e.g., reduced weight gain); Tumorigen / Carcinogen: Inhalation-Rat TCLo • 150 ppm 7 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors
Xylene (15% TO 30%)	1330 -20- 7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Inhalation-Man LCLo • 10000 ppm 6 Hour(s); Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Cyanosis; Blood:Other changes; Inhalation-Human TCLo • 200 ppm; Sense Organs and Special Senses:Glaction:Other changes; Sense Organs and Special Senses:Eye:Conjunctive irritation; Lungs, Thorax, or Respiration:Other changes; Skin-Rabbit LD50 • >1700 mg/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rabbit TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); Reproductive Effects:Effects on Fertility:Abortion; Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s)(1-21D preg); Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue); Inhalation-Rat TDLo • 200 ppm 6 Hour(s)(4-20D preg); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Effects on Newborn:Behavioral
Ethylbenzene (5% TO 15%)	100- 41-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3500 mg/kg; Inhalation-Guinea Pig LCLo • 2500 ppm 8 Hour(s); Behavioral:Coma; Inhalation-Human TCLo • 21700 mg/m³; Behavioral:Antipsychotic; Inhalation-Mouse TCLo • 600 ppm 6 Minute(s); Lungs, Thorax, or Respiration:Respiratory depression; Skin-Rabbit LD50 • 17800 μL/kg; Irritation: Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 15 mg 24 Hour(s)-Open • Mild irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 550 ppm 8 Hour(s) 5 Day(s)-Intermittent; Sense Organs and Special Senses:Ear:Change in acuity; Sense Organs and Special Senses:Ear:Changes in cochlear structure or function; Mutagen: Specific locus test • Intraperitoneal-Mouse • 754 μmol/L; Micronucleus test • Unreported Route-Hamster • Embryo (Somatic cell) • 25 mg/L; Sister chromatid exchange • Unreported Route-Human • Lymphocyte (Somatic cell) • 10 mmol/L; Mutation in Mammalian Somatic Cells • Unreported Route-Mouse • Lymphocyte (Somatic cell) • 80 mg/L; Reproductive: Inhalation-Rabbit TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); Reproductive Effects:Effects on Fertility:Abortion; Inhalation-Rat TCLo • 96 ppm 7 Hour(s)(1-19D preg); Reproductive Effects:Effects effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Inhalation-Rat TCLo • 600 mg/m³ 24 Hour(s)(7-15D preg); Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on

Embryo or Fetus: Fetal death; Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system;

Tumorigen / Carcinogen: Inhalation-Mouse TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent;

Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma;

Liver:Tumors; Inhalation-Rat TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS

criteria; Kidney, Ureter, and Bladder.Tumors; Inhalation-Rat TCLo • 23400 mg/kg 104 Week(s)-Intermittent;

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Kidney, Ureter, and Bladder. Kidney tumors;

Reproductive Effects: Tumorigenic Effects: Testicular tumors

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Aspiration 1 OSHA HCS 2012 • Aspiration 1
Carcinogenicity	EU/CLP • Carcinogenicity 1B; May cause cancer OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	EU/CLP • Germ Cell Mutagenicity 2 OSHA HCS 2012 • Germ Cell Mutagenicity 2
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Toxic to Reproduction 1B
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2

Potential Health Effects Inhalation

Acute (Immediate)

• May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

Exposure to relatively low concentrations of ethylbenzene for several days to weeks
resulted in potentially irreversible damage to the inner ear and hearing of animals.

Skin

Acute (Immediate)

· Causes skin irritation.

Chronic (Delayed)

· Repeated exposure may cause skin dryness or cracking.

Eve

Acute (Immediate)

· Causes serious eye irritation.

Chronic (Delayed)

No data available

Ingestion

Acute (Immediate)

· Material may be aspirated into lungs during ingestion and/or subsequent vomiting.

Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

Chronic (Delayed)

No data available

Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.
- **Carcinogenic Effects**
- · Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects				
	CAS	IARC	NTP	
Ethylene, trichloro-	79-01-6	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen	
Ethylbenzene	100-41-4	Group 2B-Possible Carcinogen	Not Listed	

Reproductive Effects

Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

	CAS	
Vacseal® High Vacuum Leak Sealant, liquid - Clear	NDA	Aquatic Toxicity-Fish: 4 Day(s) LC50 16 mg/L Comments: Ethylene, trichloro- (79-01-6) 14 Day(s) NOEC 3.1 mg/L Comments: Ethylene, trichloro- (79-01-6) Aquatic Toxicity-Algae and Other Aquatic Plant(s): 3 Day(s) EC50 <i>Green Algae</i> 35.1-38.2 mg/L Comments: Ethylene, trichloro- (79-01-6)

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

· Material data lacking.

12.3 Bio accumulative potential

· Material data lacking.

12.4 Mobility in Soil

· Material data lacking.

12.5 Results of PBT and vPvB assessment

· No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

· No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

14.1 Proper Shipping Name: Silicone resin solution **14.2 DOT Hazard Class:** Non-Regulated

14.3 UN/NA ID: Non-Regulated 14.4 Packing Group: Not Applicable

14.5 Labels: Not Applicable

14.6 Special precautions In case of spill, prevent entry into waterway or confined area.

Contain and collect spill with absorbent materials, wear PPE. Dispose of wet materials in

14.7 Transport in bulk bag or container, close and contact local authorities for Haz-Mat waste disposal.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Ethylbenzene	100-41-4	Yes	No	Yes	No	Yes
Trichloroethylene	79-01-6	Yes	No	Yes	No	Yes
Xylene	1330-20-7	Yes	No	Yes	No	Yes

Canada

.abor Canada - WHMIS 1988 - Classifications of Substances		
Ethylbenzene	100-41-4	B2, D2A, D2B
Xylene	1330-20-7	B2, D2A, D2B
Trichloroethylene	79-01-6	D1B, D2A, D2B
Canada - WHMIS 1988 - Ingredient Disclosure List		
Ethylbenzene	100-41-4	0.1 %
Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	1 %

Environment Canada - CEPA - Priority Substances List		
Ethylbenzene	100-41-4	Not Listed
		Priority Substance List 1
Xylene	1330-20-7	(substance not considered toxic)
Trichloroethylene	79-01-6	Priority Substance List 1
Thomorodanyione	70010	(substance considered toxic)

United States

Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
Ethylbenzene	100-41-4	Not Listed

• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Xylene	1330-20-7	(isomers and mixtures)
Trichloroethylene	79-01-6	
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		4000 (" 100 454 ("
Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
• Trichloroethylene	79-01-6	100 lb final RQ; 45.4 kg final RQ
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		0.4.07
Ethylbenzene	100-41-4	0.1 % de minimis
Xylene	1330-20-7	concentration 1.0 % de minimis
	79-01-6	concentration 0.1 % de minimis
Trichloroethylene	/ Y-U I-6	concentration
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed

United States - California

Environment U.S California - Proposition 65 - Carcinogens List			
Ethylbenzene	100-41-4	carcinogen, 6/11/2004	
• Xylene	1330-20-7	Not Listed	

Trichloroethylene	79-01-6	carcinogen, 4/1/1988
U.S California - Proposition 65 - Developmental Toxicity		
Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	developmental toxicity, 1/31/2014
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Ethylbenzene	100-41-4	54 μg/day NSRL (inhalation); 41 μg/day NSRL (oral)
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	14 μg/day NSRL (oral); 50 μg/day NSRL (inhalation)
U.S California - Proposition 65 - Reproductive Toxicity - Female		
• Ethylbenzene	100-41-4	Not Listed
Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
Trichloroethylene	79-01-6	male reproductive toxicity, 1/31/14

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

15.3 Other Information

 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

· H312 - Harmful in contact with skin

H332 - Harmful if inhaled

Revision Date

• 01/January/2022

Preparation Date

• 30/January/2020

Disclaimer/Statement of Liability

• The information stated in this Safety Data Sheet is designed only as guidance for safe handling, use, storage, transportation, and disposal. This Product should be used only in the context of its intended manner of use and include proper assessment of the appropriateness by the end user. The information relates only to the specific material designated and may not be valid when used in combination with any other materials or if this product has been re-packaged, renamed or relabeled. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication or revisions.