



Date of Issue: 01/25/2018
Rev No: 01 09/22/2020

SECTION 1: IDENTIFICATION

Product Name: VE-WELD Part A

Relevant identified uses of the substance

Product Use: Vinyl Ester proprietary mixture adhesive

Supplier: Conley Composites
4544 Broadmoor Ave
Kentwood, MI 49512 USA

Tel: 1+616-512-8000
Fax: 1+616-512-8001

Emergency Telephone Number: PERS
1-800-633-8253

SECTION 2: HAZARDS IDENTIFICATION

Hazardous Classification

Skin Sens.	Category 2
Eye Dam:	Category 2A
Aquatic Toxicity	Category 2
Flammable Liquid	Category 3
Reproductive Toxicity	Category 2

Signal Words: Danger



Pictogram(s)

Hazard Statement(s)

- H226 Flammable liquid and vapor
- H315 Causes Skin Irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H361 Suspected of damaging the unborn child

- H372 Causes damage to the nervous system through prolonged or repeated exposure if inhaled
- H401 Toxic to aquatic life

- Precautionary Statement(s)
- 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
 - P242 Use only non-sparking tools
 - P260 Do not breathe vapors
 - P264 Wash skin thoroughly after handling
 - P270 Do not eat, drink, or smoke when using this product
 - P271 Use only outdoors or in well-ventilated area
 - P273 Avoid release to the environment
 - P280 Wear protective gloves/eye protection
 - P301+P310 IF SWALLOWED, immediately call a POISON CENTER or doctor/physician.
 - P303+P361+P352: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.
 - P332+ P313 If skin irritation or rash occurs: Get medical advice/attention
 - P337+P313 If eye irritation persists: Get medical advice/attention
 - P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with regulatory requirements.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance(s): Proprietary Mixture

Product Name: VE-WELD Part A

Ingredient Name	%	CAS Number
Styrene	20-30	100-42-5
Glass Fiber	20-35	65997-17-3
Hydrous aluminum silicate	20-30	1332-58-7
Substances that do not meet the classification and labeling criteria established under the GHS	5-20%	Not applicable

Any concentration shown as a range is to protect confidentially and or due to batch variation

SECTION 4: FIRST-AID MEASURES

Cured thermoset resin products do not pose any significant health hazards related to inhalation, skin contact, eye contact or ingestion unless the article is disturbed via abrading or cutting the product.

Description of necessary first aid measures:

General	If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.
Eye Contact	Immediately flush with water for at least 20 minutes. Remove contact lenses, if present. If irritation develops or persists, seek medical attention.
Inhalation	Move to fresh air. If difficulty in breathing or respiratory irritation; seek medical attention. If breathing has stopped; seek immediate medical attention, provide artificial respiration or oxygen by trained personnel.

Skin Contact	Wash affected area thoroughly with soap and water for at least 20 minutes. If irritation develops or persists; seek medical attention.
Ingestion	Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. If symptoms persist; seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media	Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
Specific Hazards Arising From the chemical mixture	<p>Styrene vapors are flammable. Moderate fire and explosion hazards when exposed to heat or flame. Styrene vapors may travel considerable distance to source of ignition. Heating may cause containers to rupture.</p> <p>Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.</p>
Special Protective Actions protective equipment For Fire-Fighters	<p>Fire-Fighters should wear appropriate and self-contained breathing apparatus (SCBA) and turnout gear</p>

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures	<p>Wear appropriate personal protective equipment (PPE) and clothing to reduce or eliminate contact. Due to the high viscosity of this adhesive product and the relatively small end-use container size, significant spills are likely to occur. If a spill does occur, remove all sources of ignition in the area.</p> <p>Use only non-sparking tools during cleanup and place discarded material into a suitable container.</p>
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Environmental Precautions	Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.
Methods & Materials for	Use only non-sparking tools during cleanup and place discarded material into a suitable container for disposal.
Containment & Clean Up	Avoid dispersal of dust in the air (i.e. cleaning dusty surfaces with compressed air) as this can contribute to a combustible dust hazard.

SECTION 7: HANDLING & STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes and inhalation of vapors. Avoid sources of ignition, including smoking while using this product. Thoroughly wash exposed skin after working with this product. Only use this product in a well-ventilated area. Use spark-free tools. Empty containers may contain product residue and may be hazardous. Minimize generation of dust when sanding, grinding, and cutting the cured product. Routine housekeeping should be instituted to ensure that product dusts do not accumulate on surfaces.
Conditions for Safe Storage	Store in cool location away from ignition sources or direct sunlight. Avoid prolonged exposure to temperature in excess of 38°C (100°F). Material is flammable: keep away from heat, sparks, and open flames. Store in original containers or in containers of the same construction material as original containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Name	Exposure Limits (8hrs TWA)
Styrene	20 ppm
Ingredient Name	Exposure Limits (8 hrs TWA)
Glass Fiber	10 mg/m ³
Ingredient Name	Exposure Limits (8 hrs TWA)
Hydrous alumina silicate	No data available
Ingredient Name	Exposure Limits (8 hrs TWA)
Particulates not otherwise classified	No data available

Appropriate Engineering Controls Provide adequate general and local exhaust ventilation to control airborne concentrations to below occupational exposure limit values.

When sanding, cutting, grinding the cured product, it is recommended that all dust control equipment contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Personal Protective Equipment Eye protection with side shields (e.g., ANSI Z87, EN166)

Skin protection such as gloves or clothing to minimize or eliminate skin contact. Nitrile rubber gloves are generally recommended for styrene. Some gloves may be intended to be used only once and then discarded, while others may be used for longer periods of time. The glove supplier should provide the user with information regarding permeability and breakthrough time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

General protective and hygienic measures for handling chemicals should be followed. Do not eat, drink, smoke or sniff while working. Do not inhale gases/fumes. Avoid contact with the eyes and skin. Clean skin thoroughly immediately after handling the product. Ensure that washing facilities are available at the work place. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Breathing equipment is not necessary if room is well-ventilated.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grey, light black thixotropic paste
Upper/Lower Flammability or Explosive Limits	No Data
Odor	Sweet (Styrene)
Vapor Pressure	CA. 4.5mm Hg @ 20 Degrees C (Styrene)
Odor Threshold	< 1 ppm (styrene)
Vapor Density (air = 1)	3.6 (styrene)
pH	No Data
Relative Density	No Data
Melting Point/Freezing Point	-31°C/-24°F
Solubility	0.032% wt% in water @ 20
Initial Boiling Point and Boiling Range	145 Degrees C
Flash Point	Closed cup 32 Degrees C
Evaporation Rate	No Data

Flammability (solid, gas)	No Data
Partition Coefficient: n-octanol/water	No Data
Auto-Ignition Temperature	490°C/914°F
Viscosity	65,000 – 130,000 cP @ 26°C
Oxidizing	No Data

10: STABILITY AND REACTIVITY

Reactivity	No decomposition expected if product is stored and used as directed.
Chemical Stability	The product is stable
Possible Hazardous Reactions	Organic peroxides cause exothermic reactions
Conditions to Avoid	Excessive heat, flames, and sparks. Avoid unintended mixing with organic peroxide catalyst.
Incompatible Materials	Styrene is corrosive to copper and copper-bearing alloys. Avoid Contact with oxidizing materials and unintended mixing with organic peroxide catalyst.
Hazardous Decomposition Products:	On combustion, may emit toxic fumes or carbon monoxide (CO)

11: TOXICOLOGICAL EFFECTS

Acute Toxicity	Styrene: Moderate acute toxicity via inhalation route of exposure Styrene: Low acute toxicity via oral and dermal routes of exposure Styrene: May be fatal if swallowed and enters the airways.
Skin Corrosion/Irritation	Acute skin irritation
Serious Eye Damage/Irritation	Moderate eye irritation
Respiratory or Skin Sensitization	May cause sensitization by inhalation and skin contact
Germ Cell Mutagenicity	Not mutagenic in AMES test
Carcinogenicity	Styrene: Listed by NTP as reasonably anticipated to be a human carcinogen and by IARC as a group 2B carcinogen (possibly carcinogenic to humans)
Reproductive Toxicity	Styrene: Several studies suggest that reproductive and developmental effects in humans following exposure are not a major concern.
STOT-Single Exposure	Styrene: May cause respiratory irritation
STOT-Repeated Exposures	Styrene: May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazards	No data on the product itself

12: ECOLOGICAL INFORMATION

Environmental effects:	Toxic to aquatic organisms, may cause long-term effects in the aquatic environment. Material is readily biodegradable. This product
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does not bioaccumulate. Water polluting material. Potential for mobility in soil is low.

13: DISPOSAL CONSIDERATIONS

Waste Disposal

Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14: TRANSPORT INFORMATION

Transportation Emergency Number: 1-800-633-8253 (PERS).

DOT

UN/ID no. : UN1133
Proper shipping name : Adhesives containing flammable liquid
Class or Division : 3
Packing Group : III
Label(s) : Flammable Liquid 3
ERG Code : 3L
Marine Pollutant : No

IATA

UN/ID no. : UN1133
Proper shipping name : Adhesives containing flammable liquid
Class or Division : 3
Packing Group : III
Label(s) : Flammable Liquid 3
Packing instruction (cargo aircraft) : allowed with restrictions
Packing instruction (passenger aircraft) : allowed with restrictions

15: REGULATORY INFORMATION

United States

HCS Classification : Reactivity Hazard
Acute Health Hazard

U.S. Federal Regulations: TSCA 8(a) IUR: Listed on

United States inventory (TSCA 8b)

SARA 313 : Styrene (CAS 100-42-5) 20%

California PROP 65 : Warning! This product contains a chemical known to the State of California to cause cancer.

BENZENE 71-43-2

Warning! This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.
BENZENE 71-43-2

16: OTHER INFORMATION

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Legend to abbreviation and acronyms used

ANSI- American Nation Standards Institute
NIOSH- National Institute for Occupational Safety and Health
vPvB- very Persistent and very Bio accumulative
PBT- Persistent Bio accumulative and Toxic

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.