

Date of Issue: 11/22/2019  
Rev No. 01

**SECTION 1: IDENTIFICATION**

Product Name: Bonding Agent Vinyl Ester Part B  
Product Identifier: Bonding Agent Vinyl Ester Part B

Relevant identified uses of the substance

Product Use: Vinyl Ester surface bonding agent

Supplier: Conley  
4544 Broadmoor Ave. SE  
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 | Flammable Liquid           | Category 2  |
|                          | Acute Toxicity, oral       | Category 3  |
|                          | Acute Toxicity, inhalation | Category 2  |
|                          | Skin Sens.                 | Category 1A |
|                          | Eye Dam:                   | Category 2A |
|                          | Aquatic Toxicity           | Category 3  |

Signal Words: Danger



Pictogram(s)

|                            |  |
|----------------------------|--|
| Hazard Statement(s)        | H242 Heating may cause a fire<br>H302 Harmful if swallowed<br>H313 May be harmful in contact with skin<br>H332 Harmful if inhaled<br>H402 Harmful to aquatic life  |
| Precautionary Statement(s) | <p>P210 Keep away from heat/sparks/open flames/hot surfaces; no smoking</p> <p>P260 Do not breathe vapors</p> <p>P363 Wash contaminated clothing before reuse</p> <p>P264 Wash skin &amp; contaminated skin thoroughly after handling</p> <p>P270 Do not eat, drink or smoke when using this product</p> <p>P271 Use only outdoors or in well-ventilated area</p> <p>P273 Avoid release to the environment</p> <p>P280 Wear protective gloves/eye protection</p> <p>P303+P361+P353: <b>IF ON SKIN</b> take off all contaminated clothing immediately and rinse skin with water.</p> <p>P301+P330+P331 <b>IF SWALLOWED:</b>Rinse mouth, DO NOT induce vomiting.</p> <p>P304+P340 <b>IF INHALED</b> remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 <b>IF IN EYES</b> remove contact lenses, Rinse cautiously with water for several minutes.</p> <p>P310 <b>IMMEDIATELY CALL A POISON CENTER OR DOCTOR IF SWALLOWED OR IN EYES</b></p> <p>P378 Use water, foam, sand, dry chemical powder or carbon dioxide to extinguish</p> <p>P403 Store in a well ventilated place</p> <p>P410 Protect from sunlight</p> |

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance(s): Mixture

Product Name: Bonding Agent Vinyl Ester Part B

| Ingredient Name                               | %      | CAS Number            |
|---|--------|-----------------------|
| Polymer/Styrene Mixture                       | 65-80% | Trade Secret/100-42-5 |
| Duroct Cobalt 6% Mixture (Cobalt Carboxylate) | 0.2-1% | (136-52-7)            |
| Xylene<br>Ethylbenzene                        | 65-95% | 1330-20-7<br>100-41-4 |
| Methyl ethyl ketone                           | 5-15%  | 78-93-3               |
| Butyl Cellosolve (Glycol Ether)               | 4-10%  | 7440-44-0             |

\*Other components below reportable levels

\*designates that a specific chemical identity and or percentage of composition has been withheld as a proprietary.

**SECTION 4: FIRST-AID MEASURES**

Cured Conley Bonding Agent Vinyl Ester Part B 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:

Eye Contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 20 minutes. Seek immediate 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 water for at least 20 minutes. Remove contaminated clothing. If irritation develops or persists; seek medical attention.

Ingestion

Do not induce vomiting. Seek immediate medical attention. If conscious and alert give provide plenty of water. NEVER give anything by mouth to an unconscious person. If vomiting occurs, lay on side to reduce the risk of aspiration.

## **SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing Media Carbon Dioxide, Foam, Dry Chemical, Water spray. DO NOT use halons to extinguish fire.

Specific Hazards Arising From the Chemical Vapors may form explosive mixtures with air. On combustion, may emit toxic fumes of carbon dioxide, Vapors may travel considerable distance to a source of ignition and flash back.

Special Protective Actions For Fire-Fighters Fire-Fighters should wear full appropriate protective equipment and self-contained breathing apparatus (SCBA) and turnout gear. Consider the hazard of other involved materials. Extremely flammable liquid and vapor.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment & Emergency Procedures Ventilate closed areas before entering. Wear appropriate personal protective equipment (PPE) and clothing to reduce or eliminate contact. Do not breathe fumes/vapors. Avoid contact with skin & eyes. Remove all sources of ignition in the event of a spill. Use only non-sparking tools during cleanup and place discarded material into a suitable container.

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 Containment & Clean Up Ensure adequate ventilation. Use only non-sparking tools during clean up. Spilled material can be covered with an inert absorbent (e.g./vermiculite) to assist removal. Dispose contaminated materials as waste according to Section 13

## **SECTION 7: HANDLING & STORAGE**

Precautions for Safe Handling Use in well ventilated area. Avoid contact with skin and eyes and inhalation of vapors. Avoid sources of ignition. DO NOT smoke while using product. Thoroughly wash exposed skin after working with this product.

Conditions for Safe Storage Store away from foodstuffs. Store in a cool location and away from ignition sources or direct sunlight. Material is flammable: Keep away from heat, sparks and open flames. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| <b>Ingredient Name</b>                                       | <b>Exposure Limits (8hrs TWA)</b>  |
|--|------------------------------------|
| Xylene (mixed isomers) (Benzene, dimethyle) (CAS: 1330-20-7) | 100 ppm                            |
| <b>Ingredient Name</b>                                       | <b>Exposure Limits (8 hrs TWA)</b> |
| Ethylbenzene (Ethylbenzol; Phenylethane) (CAS: 100-41-4)     | 100 ppm                            |

Appropriate Engineering Controls Provide adequate general ventilation to control airborne concentrations to below occupational exposure limit values. Eye wash facilities must be available when handling this product.

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

Skin protection such as chemical resistant gloves butyl rubber, nitrile rubber or neoprene. Also, wear appropriate chemical resistant clothing to minimize or eliminate skin contact.

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. If ventilation is insufficient to keep airborne concentrations below the occupation exposure limit levels use full or half-mask respirator fitted with organic vapor cartridges. Filter masks may be of limited use in cases of high or unknown exposure.

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |                                |
|--|--------------------------------|
| Appearance                                   | Clear                          |
| Upper/Lower Flammability or Explosive Limits | LEL: AP 1% UEL: AP 7%          |
| Odor   | Faint solvent                  |
| Vapor Pressure                               | 7 MM HG at 20.0c               |
| Odor Threshold                               | No data available              |
| Vapor Density (air = 1)                      | No data available              |
| pH   | No data available              |
| Relative Density                             | No data available              |
| Melting Point/Freezing Point                 | No data available              |
| Solubility                                   | No data available              |
| Initial Boiling Point and Boiling Range      | 280.00 F to 400.00 F estimated |
| Flash Point                                  | No data available              |
| Evaporation Rate                             | No data available              |
| Flammability (solid, gas)                    | No data available              |
| Partition Coefficient: n-otanol/water        | No data available              |
| Auto-Ignition Temperature                    | No data available              |
| Viscosity                                    | No data available              |
| Oxidizing                                    | No data available              |

## **10. STABILITY AND REACTIVITY**

|                                  |   |
|----------------------------------|---|
| Reactivity                       | Stable & non-reactive under normal conditions of use, storage and transport |
| Chemical Stability               | The product is stable   |
| Possible Hazardous Reactions     | Hazardous polymerization will not occur                                     |
| Conditions to Avoid              | Excessive heat, sparks, open flames   |
| Incompatible Materials           | Strong oxidizing agents   |
| Hazardous Decomposition Products | None are known  |

## **11. TOXICOLOGICAL EFFECTS**

|   |  |
|---|--|
| Acute Toxicity(CAS1330-20-7 (CAS 100-41-4)) | <b>Inhalation</b> / Rat / 5000 ppm, 4 Hours<br>750 ppm   |
| Skin Corrosion/Irritation                   | Skin irritant  |
| Serious Eye Damage/Irritation               | Eye irritant   |
| Respiratory or Skin Sensitization           | Could cause respiratory sensitivity. May cause skin  |
| Germ Cell Mutagenicity                      | No data available  |
| Carcinogenicity                             | Possible Carcinogen  |
| Reproductive Toxicity                       | In high levels of exposure (CAS 100-41-4)  |
| STOT-Single Exposure                        | Not classified   |
| STOT-Repeated Exposures                     | May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful |
| Aspiration Hazards                          | Not an aspiration hazard   |

## **12. ECOLOGICAL INFORMATION**

Aquatic toxicity:

This product is not classified as an environmentally hazard. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

## **13. DISPOSAL CONSIDERATIONS**

This product should not be allowed to enter drains, water courses, or the soil; dispose of the material and its container in a safe way. Dispose of container and unused contents in accordance with federal, state and local requirements. Empty containers may contain hazardous residue and must be disposed accordingly.

## **14. TRANSPORTATION INFORMATION**

### **DOT**

UN/ID no. : UN1993  
Proper shipping name : Flammable Liquids, n.o.s., (MEK, Resin Solution)

Class or Division : 3  
Packing Group : II  
Label(s) : Flammable liquid  
ERG Code :  
Marine Pollutant : No

### **IATA**

UN/ID no. : UN1993

Proper shipping name : Flammable Liquids, n.o.s., (MEK, Resin Solution)  
Class or Division : 3  
Packing Group : II  
Label(s) : Flammable liquid  
Packing instruction (cargo aircraft): Xylenes, Keep Away From Heat 570  
Packing instruction (passenger aircraft): 570

### **IMDG**

UN/ID no. : UN1993  
Proper shipping name : Flammable Liquids, n.o.s., (MEK, Resin Solution)  
Class or Division : 3  
Packing Group : II  
Label(s) : Flammable liquid  
EmS Code : F-J, S-R  
Marine Pollutant : P

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable for product as supplied.**

### **15. REGULATORY INFORMATION**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard communication Standard 29 CFR 1910.1200

TSCA 12(b) component(s) : none

EPA SARA Title III 312 (40 CFR 370): Xylenes (CAS 1330-20-7) 1000 LBS

US California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):  
This product may contain chemicals known to the State of California to cause cancer, birth defects or any other harm.

### **16. OTHER INFORMATION**

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.