SECTION 1: Identification

Product identifier

Product name: Tank & Radiator Repair Kit Resin
Product code: 2110, 2120-A

Recommended use of the product and restriction on use

Relevant identified uses: 2-Part Epoxy for Tank Repair
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
J-B Weld Company, LLC
400 CMH Road
Sulphur Springs, TX 75482
903-885-7696
info@jbweld.com

Emergency telephone number:
United States
InfoTrac
Transportation Emergencies (24 hour): 800-535-5053
Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) identification

GHS classification:
Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1

Label elements

Hazard pictograms:

Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements:
P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
Tank & Radiator Repair Kit Resin

P272 Contaminated work clothing must not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P321 Specific treatment (see supplemental first aid instructions on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention
P501 Dispose of contents/container in accordance with local regulations.

Hazard not otherwise classified: None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 1333-86-4</td>
<td>Color</td>
<td>&lt;10</td>
</tr>
<tr>
<td>CAS number: 25068-38-6</td>
<td>Resin</td>
<td>&gt;90</td>
</tr>
</tbody>
</table>

Additional Information:
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:
Not determined or not applicable.

After inhalation:
If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

After skin contact:
Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After eye contact:
Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

After swallowing:
If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:
Causes eye irritation. Symptoms include corneal redness, tearing, burning, and inflammation. Causes skin irritation and may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning, and dermatitis.

Delayed symptoms and effects:
Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment
Specific treatment:
Treat symptomatically.
Notes for the doctor:
Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media
Suitable extinguishing media:
Water fog, Dry chemical, Carbon dioxide, Foam Fire Extinguishers. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.

Unsuitable extinguishing media:
Do not use direct water stream. May spread fire.

Specific hazards during fire-fighting:
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics, Carbon monoxide, Carbon dioxide, Aldehydes, Acids, other organic substances.
Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.

Special protective equipment for firefighters:
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

Special precautions:
Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ventilate spill area, and evacuate if necessary.
Keep unnecessary and unprotected personnel from entering the area.
Tank & Radiator Repair Kit Resin

Extinguish all ignition sources  
Avoid contact with eyes, skin and clothing  
Avoid breathing fumes and vapor  
Wear recommended personal protective equipment (see Section 8)

Environmental precautions:  
Should not be released into the environment  
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:  
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)  
Dispose of contents / container in accordance with local regulations

Reference to other sections:  
Section 8: Personal Protective Equipment

SECTION 7: Handling and storage

Precautions for safe handling:  
Use only with adequate ventilation.  
Wear recommended personal protective equipment (See Section 8).  
Avoid breathing fumes and vapor.  
Avoid contact with eyes, skin, and clothing.  
Do not eat, drink or smoke while using this product.  
Wash thoroughly after handling.  
Keep away from incompatible materials (see Section 10).  
Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire.  
Keep away from open flame, hot surfaces and sources of ignition. Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire.

Conditions for safe storage, including any incompatibilities:  
Keep out of reach of children.  
Store in a cool, dry and well-ventilated area.  
Store away from ignition sources, open flame, hot surfaces and incompatible materials (see Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States (OSHA)</td>
<td>Color</td>
<td>1333-86-4</td>
<td>OSHA PEL TWA 3.5 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>Color</td>
<td>1333-86-4</td>
<td>NIOSH REL TWA 0.1 mg PAHs/m³ [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]</td>
</tr>
<tr>
<td></td>
<td>Color</td>
<td>1333-86-4</td>
<td>NIOSH REL TWA 3.5 mg/m³ Ca</td>
</tr>
<tr>
<td>ACGIH</td>
<td>Color</td>
<td>1333-86-4</td>
<td>TLV-TWA 3.0 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values:  
No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:
Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

**Appropriate engineering controls:**
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Personal protection equipment**
- **Eye and face protection:** Safety goggles or glasses, or appropriate eye protection.
- **Skin and body protection:** Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.
- **Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines or if experiencing adverse effects. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

**General hygienic measures:**
- Avoid contact with skin, eyes and clothing.
- Wash hands before breaks and at the end of work.
- Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless to mild</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>480°F</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Upper flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Lower flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>0.03 at 77°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>
Decomposition temperature | Not determined or not available.
--- | ---
Dynamic viscosity | Not determined or not available.
Kinematic viscosity | Not determined or not available.
Explosive properties | No EEC A14
Oxidizing properties | Not determined or not available.

**SECTION 10: Stability and reactivity**

**Reactivity:**
- Not reactive under recommended storage and handling conditions.

**Chemical stability:**
- Stable under recommended storage conditions. See Storage, Section 7.

**Possibility of hazardous reactions:**
- Polymerization will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

**Conditions to avoid:**
- Avoid contact with incompatible materials, open flame, hot surfaces and sources of ignition.
- Avoid short term exposures to temperatures above 300 °C (572 °F). Avoid prolonged exposure to temperatures above 250 °C (482 °F). Potentially violent decomposition can occur above 350 °C (662 °F). Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

**Incompatible materials:**
- Avoid contact with oxidizing materials, acids and bases.
- Avoid unintended contact with amines.

**Hazardous decomposition products:**
- Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

**SECTION 11: Toxicological information**

**Acute toxicity**
- **Assessment:** Based on available data, the classification criteria are not met.
- **Product data:** No data available.
- **Substance data:** No data available.

**Skin corrosion/irritation**
- **Assessment:** Causes skin irritation
- **Product data:** No data available.
- **Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Causes skin irritation</td>
</tr>
</tbody>
</table>

**Serious eye damage/irritation**
- **Assessment:** Causes serious eye irritation
- **Product data:** No data available.
Safety Data Sheet

Initial preparation date: 04.24.2019

Tank & Radiator Repair Kit Resin

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>Not Applicable</td>
<td>The carcinogenic classification only applies to airborne, unbound particles of respirable size.</td>
</tr>
<tr>
<td>Color</td>
<td>Not applicable.</td>
<td>The carcinogenic classification only applies to airborne, unbound particles of respirable size.</td>
</tr>
</tbody>
</table>

International Agency for Research on Cancer (IARC):

<table>
<thead>
<tr>
<th>Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Group 2B - Possibly carcinogenic to humans</td>
</tr>
</tbody>
</table>

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.
Tank & Radiator Repair Kit Resin

Safety Data Sheet


Initial preparation date: 04.24.2019

Substance data: No data available.

Aspiration toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>EC50 - Scenedesmus capricornutum - 9 mg/L - 48 h</td>
</tr>
</tbody>
</table>

Chronic (long-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Chronic Toxicity Value: Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, NOEC: 0.3 mg/l</td>
</tr>
</tbody>
</table>

Persistence and degradability
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Biodegradation: 12%, Exposure time: 28 days, Method: OCED 302B Test, 10 Day Window: Not applicable Rate Constant: 6.69E-11 cm3/s, Atmospheric Half-life: 1.92h, Method: Estimated Theoretical Oxygen Demand: 2.35 mg/mg</td>
</tr>
</tbody>
</table>

Bioaccumulative potential
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Partition coefficient, n-octanol/water (log Pow): 3.242 Estimated.</td>
</tr>
</tbody>
</table>

Mobility in soil
Product data: No data available.
Substance data:
Potential for mobility in soil is low (Koc between 500 and 2000). Given its very low Henry’s constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Partition coefficient, soil organic carbon/water (Koc): 1,800 - 4,400 Estimated. Henry’s Law Constant (H): 4.93E-05 Pa*m3/mole; 25 °C

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities Dispose of product in accordance with all local, regional, state and federal regulations

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| UN number | Not regulated |
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| UN number | UN 3082 |
| UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. Bisphenol -A (Epichlorohydrin) |
| UN transport hazard class(es) | 9 |
| Packing group | III |
| Environmental hazards | Marine Pollutant Bisphenol-A (Epichlorohydrin) |
| Special precautions for user | None |
| EmS number | F-A, S-F |
| Stowage category | A |
| Excepted quantities | E1 |
| Limited quantity | 5L |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| UN number | UN 3082 |
| UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. Bisphenol -A (Epichlorohydrin) |
Safety Data Sheet

Initial preparation date: 04.24.2019

Tank & Radiator Repair Kit Resin

<table>
<thead>
<tr>
<th>UN transport hazard class(es)</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Marine Pollutant Bisphenol-A (Epichlorohydrin)</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
<tr>
<td>ERG code</td>
<td>9L</td>
</tr>
<tr>
<td>Excepted quantities</td>
<td>E1</td>
</tr>
<tr>
<td>Passenger and cargo</td>
<td>450 L</td>
</tr>
<tr>
<td>Cargo aircraft only</td>
<td>450 L</td>
</tr>
<tr>
<td>Limited quantity</td>
<td>30 Kg G</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

United States regulations
Inventory listing (TSCA):

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>Resin</td>
<td>Listed</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Color</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.
Export notification under TSCA Section 12(b): None of the ingredients are listed.
SARA Section 302 extremely hazardous substances: None of the ingredients are listed.
SARA Section 313 toxic chemicals: None of the ingredients are listed.
CERCLA: None of the ingredients are listed.
RCRA: None of the ingredients are listed.
Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>Resin</td>
<td>Not Listed</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Color</td>
<td>Listed</td>
</tr>
</tbody>
</table>

New Jersey Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Color</td>
<td>Listed</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>Resin</td>
<td>Listed</td>
</tr>
</tbody>
</table>

New York Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Color</td>
<td>Not Listed</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>Resin</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Pennsylvania Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Color</td>
<td>Listed</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>Resin</td>
<td>Listed</td>
</tr>
</tbody>
</table>

California Proposition 65:

⚠️ WARNING: This product can expose you to chemicals including Bounded Carbon Black and Phenyl Glycidyl Ether which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
### Safety Data Sheet


<table>
<thead>
<tr>
<th>Date: 04.24.2019</th>
</tr>
</thead>
</table>

**Tank & Radiator Repair Kit Resin**

<table>
<thead>
<tr>
<th>Section: 16: Other information</th>
</tr>
</thead>
</table>

#### Abbreviations and Acronyms
None

#### Disclaimer
This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-0-0

**HMIS:** 2-0-0

**Initial preparation date:** 04.24.2019

**End of Safety Data Sheet**
SECTION 1: Identification

Product identifier

Product name: Tank & Radiator Repair Kit Hardener
Product code: 2110, 2120 -B

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
J-B Weld Company, LLC
400 CMH Road
Sulphur Springs, TX 75482
903-885-7696
info@jbweld.com

Emergency telephone number:
United States
InfoTrac
Transportation Emergencies (24 hour): 800-535-5053
Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1

Label elements

Hazard pictograms:

Signal word: Warning

Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements:

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
Tank & Radiator Repair Kit Hardener

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362 Take off contaminated clothing and wash before reuse
P321 Specific treatment (see supplemental first aid instructions on this label).
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention
P501 Dispose of contents/container in accordance with local regulations.

Hazard not otherwise classified: None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number:</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>6-16</td>
</tr>
<tr>
<td>90-72-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS number:</td>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with</td>
<td>84-94</td>
</tr>
<tr>
<td>72244-98-5</td>
<td>2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ether</td>
<td></td>
</tr>
</tbody>
</table>

Additional Information:
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:
Not determined or not applicable.

After inhalation:
If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

After skin contact:
Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After eye contact:
Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

After swallowing:
If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:
Causes eye irritation. Symptoms include corneal redness, tearing, burning, and inflammation
Causes skin irritation and may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

Delayed symptoms and effects:
Effects are dependent on exposure (dose, concentration, contact time)

Immediate medical attention and special treatment
Specific treatment:
Not determined or not applicable.
Notes for the doctor:
Treat symptomatically

SECTION 5: Firefighting measures

Extinguishing media
Suitable extinguishing media:
Carbon dioxide, dry chemical, foam, sand, earth, water spray
Unsuitable extinguishing media:
Not determined or not applicable.

Specific hazards during fire-fighting:
Thermal decomposition can lead to release of irritating gases and vapors
Hazardous combustion products include: oxides of Carbon, oxides of Nitrogen, oxides of Sulphur

Special protective equipment for firefighters:
Firefighters should wear full protective clothing including self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent)

Special precautions:
Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing
Wear recommended personal protective equipment (see Section 8)

Environmental precautions:
Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:
Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:
Section 8: Personal Protective Equipment

SECTION 7: Handling and storage

Precautions for safe handling:
Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Wear recommended personal protective equipment (see Section 8).

Conditions for safe storage, including any incompatibilities:
Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Keep away from incompatible materials such as strong oxidizing agents, peroxides, acids, sodium hypochlorite, calcium hypochlorite.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:
No occupational exposure limits noted for the ingredient(s).

Biological limit values:
No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:
Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:
Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:
Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Colorless to pale yellow liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Mercaptan like</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>
**Safety Data Sheet**


**Initial preparation date:** 04.24.2019

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**Tank & Radiator Repair Kit Hardener**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>&gt;93.3°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Upper flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Lower flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.13</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>1000-1600 mPas</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>

**Other information**

**SECTION 10: Stability and reactivity**

**Reactivity:**
- Does not react under normal conditions of use and storage.

**Chemical stability:**
- Stable under recommended storage conditions.

**Possibility of hazardous reactions:**
- None under normal conditions of use and storage.

**Conditions to avoid:**
- Excessive heat.

**Incompatible materials:**
- Strong oxidizing agents, peroxides, acids, sodium hypochlorite, calcium hypochlorite, epoxy resins.

**Hazardous decomposition products:**
- Carbon oxides, nitrogen oxides, oxides of Sulphur.

**SECTION 11: Toxicological information**

**Acute toxicity**
- **Assessment:** Based on available data, the classification criteria are not met.
- **Product data:** No data available.
- **Substance data:**

---

Generated using Total SDS™ (patent-pending), www.GSMSDS.com
### Skin corrosion/irritation

**Assessment:**
Causes skin irritation

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Causes skin irritation.</td>
</tr>
</tbody>
</table>

### Serious eye damage/irritation

**Assessment:**
Causes serious eye irritation

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

### Respiratory or skin sensitization

**Assessment:**
May cause an allergic skin reaction

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyi)), alpha-hydro-omega-hydroxy-ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether</td>
<td>May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Reproductive toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Specific target organ toxicity (single exposure)
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Specific target organ toxicity (repeated exposure)
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Aspiration toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Chronic (long-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.

Substance data:
<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether</td>
<td>NOEC - Daphnia magna (Water flea) - 3.5 mg/L - 21 d</td>
</tr>
</tbody>
</table>

Persistence and degradability
**Tank & Radiator Repair Kit Hardener**

**Product data:** No data available.

**Substance data:** No data available.

**Bioaccumulative potential**

**Product data:** No data available.

**Substance data:** No data available.

**Mobility in soil**

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

**Disposal methods:**
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

<table>
<thead>
<tr>
<th></th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td></td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

#### International Maritime Dangerous Goods (IMDG)

<table>
<thead>
<tr>
<th></th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
</tr>
<tr>
<td>UN proper shipping name</td>
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<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<table>
<thead>
<tr>
<th></th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
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<tr>
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<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory information

**United States regulations**
Inventory listing (TSCA):

<table>
<thead>
<tr>
<th>Inventory Number</th>
<th>Chemical Name</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>72244-98-5</td>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether</td>
<td>Listed</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

<table>
<thead>
<tr>
<th>Inventory Number</th>
<th>Chemical Name</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>72244-98-5</td>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether</td>
<td>Not Listed</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

New Jersey Right to Know:

<table>
<thead>
<tr>
<th>Inventory Number</th>
<th>Chemical Name</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

New York Right to Know:

<table>
<thead>
<tr>
<th>Inventory Number</th>
<th>Chemical Name</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>72244-98-5</td>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether</td>
<td>Not Listed</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Pennsylvania Right to Know:

<table>
<thead>
<tr>
<th>Inventory Number</th>
<th>Chemical Name</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>72244-98-5</td>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether</td>
<td>Not Listed</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.