Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 84115 5 MINUTE PLASTIC WELD (ACTIVATOR)
Item No: PTX203012B
Product Type: Activator

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component:</th>
<th>Weight%</th>
<th>ACGIH; TLV-TWA</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Methacrylate 80-62-6</td>
<td>60-80</td>
<td>50 ppm</td>
<td>100 ppm; 410 mg/m³</td>
</tr>
<tr>
<td>Acrylonitrile-Butadiene Polymer 9003-18-3</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>3,5-Diethyl-1,2-Dihydro-1-Phenyl-2-Propylpyridine 84562-31-7</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. May cause skin sensitization. Exposure to vapors or mist may result in irritation of the respiratory tract.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure:
- Eyes: Exposure to liquid or vapor causes moderate eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury. Repeated skin contact may cause allergic skin reactions. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea.

Component: Weight% NTP ACGIH Carcinogens IARC Carcinogen

<table>
<thead>
<tr>
<th>Component:</th>
<th>Weight%</th>
<th>NTP</th>
<th>ACGIH Carcinogens</th>
<th>IARC Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Methacrylate 80-62-6</td>
<td>60-80</td>
<td>male rat-no evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td>Group 3: Monograph 60, 1994</td>
</tr>
</tbody>
</table>

Aggravated Medical Condition: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapors. Obtain medical attention.

Skin Contact: Remove contaminated clothing. Wash area with soap and water. If irritation persists, seek medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(°C): 52.7°F (11.5°C)

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, Foam

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact

Hazardous Products of Combustion: Oxides of carbon, Oxides of nitrogen

Unusual Fire/Explosion Hazards: Flammable. Closed containers may rupture or explode when exposed to extreme heat.

Lower Explosive Limit: 1.6%
Upper Explosive Limit: 12.5%
6. ACCIDENTAL RELEASE MEASURES
Spill Procedures:
Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.

7. HANDLING AND STORAGE
Storage:
Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C).
Handling:
Do not use near heat, sparks or open flame. Use in a well ventilated area. Avoid contact with skin and eyes. Wash thoroughly after handling. Discard contaminated leather gloves and shoes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Eyes:
Safety glasses
Skin:
Neoprene or nitrile gloves recommended
Ventilation:
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Respiratory Protection:
An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance:
White viscous liquid
Odor:
Solvent
Boiling Point:
213°F (100.5°C)
pH:
Not applicable
Solubility in Water:
Slight
Specific Gravity:
0.95
VOC(Wt.%):
<50 g/L mixed
Vapor Pressure:
28 mmHg @ 68°F
Vapor Density (Air=1):
>1
Evaporation Rate:
>1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY
Chemical Stability:
Stable
Hazardous Polymerization:
May occur
Incompatibilities:
Strong oxidizers, Reducing agents
Conditions to Avoid:
Keep away from heat, sparks and flame
Hazardous Products of Combustion:
Oxides of carbon, Oxides of nitrogen

11. TOXICOLOGICAL INFORMATION
See Section 3

12. ECOLOGICAL INFORMATION
No data available

13. DISPOSAL CONSIDERATIONS
Recommended Method of Disposal:
Disposal should be made in accordance with federal, state and local regulations
US EPA Waste Number:
D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION
DOT (49CFR 172)
U.S. Department of Transportation - DOT - 49 CFR (Ground)
DOT Shipping Name:
Adhesives, Limited Quantity
Hazard Class:
Class 3, PG II
UN/ID Number:
UN 1133

IATA (Air)
Proper Shipping Name:
Consumer Commodity (Not more than 500 ml)
Class or Division:
Class 9
UN/ID Number:
ID 8000

IMDG (Vessel)
Proper Shipping Name:
Adhesives, Limited Quantity
Hazard Class: Class 3, PG II
UN Number: UN 1133

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.
Methyl methacrylate

California Proposition 65: No California Prop 65 chemicals are known to be present.

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 3, PHYSICAL HAZARD 0
(NFPA is a registered trademark of the National Fire Protection Association)
(HMIS is a registered trademark of the National Paint and Coatings Association)

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: ITW Permatex 10 Columbus Blvd. Hartford, CT USA 06106
Telephone No.: 1-87-Permatex (877) 376-2839
Revision Date: June 04, 2014
Revision Number: 1
Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 84115 5 MINUTE PLASTIC WELD (ADHESIVE)
Item No: R478ADH2
Product Type: Adhesive

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component:</th>
<th>Weight%</th>
<th>ACGIH; TLV-TWA</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL METHACRYLATE 80-62-6</td>
<td>35-60</td>
<td>50 ppm</td>
<td>100 ppm; 410 mg/m³</td>
</tr>
<tr>
<td>METHACRYLIC ACID 79-41-4</td>
<td>1-10</td>
<td>20 ppm</td>
<td>20 ppm; 70 mg/m³</td>
</tr>
<tr>
<td>DIMETHYLBENZYL HYDROPEROXIDE 80-15-9</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>BUTYLATED HYDROXY TOLUENE 128-37-0</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>ETHEROXILATED TRIMETHYLOLPROPANE TRIACRYLATE 28961-43-5</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>TETRASODIUM EDTA 84-02-8</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>ACRYLONITRILE-BUTADIENE POLYMER 9003-18-3</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>P-TOLUENESULFONYL CHLORIDE 88-59-9</td>
<td>1-10</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. May cause skin sensitization. Exposure to vapors or mist may result in irritation of the respiratory tract.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Eyes: Exposure to liquid or vapor causes moderate eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury. Skin redness. Repeated skin contact may cause allergic skin reactions. Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea.

Aggravated Medical Condition: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.
### 4. FIRST AID MEASURES

**Inhalation:**
Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

**Skin Contact:**
Remove contaminated clothing. Wash area with soap and water. If irritation persists, seek medical attention.

**Eye Contact:**
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

### 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point °F (°C)</td>
<td>52.7°F (11.5°C)</td>
</tr>
<tr>
<td>Recommended Extinguishing Media:</td>
<td>Carbon dioxide, Dry chemical, Foam</td>
</tr>
<tr>
<td>Special Fire-Fighting Procedures:</td>
<td>Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact</td>
</tr>
<tr>
<td>Hazardous Products of Combustion:</td>
<td>Oxides of carbon, Oxides of nitrogen</td>
</tr>
<tr>
<td>Unusual Fire/Explosion Hazards:</td>
<td>Flammable. Closed containers may rupture or explode when exposed to extreme heat. Keep containers cool.</td>
</tr>
</tbody>
</table>

| Lower Explosive Limit: | 1.6% |
| Upper Explosive Limit:  | 12.5% |

### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:**
Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.

### 7. HANDLING AND STORAGE

**Storage:**
Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C).

**Handling:**
Do not use near heat, sparks or open flame. Do not inhale vapors. Avoid contact with skin and eyes. Wash thoroughly after handling.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:**
Safety glasses.

**Skin:**
Neoprene or nitrile gloves recommended. Wash contaminated clothing before re-use.

**Ventilation:**
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Respiratory Protection:**
An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**
White viscous liquid

**Odor:**
Solvent

**Boiling Point:**
213°F (100.5°C)

**pH:**
Not applicable

**Solubility in Water:**
Slight

**Specific Gravity:**
0.95

**VOC(Wt. %):**
<50 g/L

**Vapor Pressure:**
28 mmHg @ 68°F

**Vapor Density (Air=1):**
>1

**Evaporation Rate:**
>1 (butyl acetate = 1)

### 10. STABILITY AND REACTIVITY

**Chemical Stability:**
Stable

**Hazardous Polymerization:**
Will not occur

**Incompatibilities:**
Strong oxidizers, Reducing agents

**Conditions to Avoid:**
Keep away from heat, sparks and open flame

**Hazardous Products of Combustion:**
Oxides of carbon, Oxides of nitrogen

### 11. TOXICOLOGICAL INFORMATION

See Section 3

### 12. ECOLOGICAL INFORMATION

No data available
13. DISPOSAL CONSIDERATIONS
Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations
US EPA Waste Number: D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION
DOT (49CFR 172)
U.S. Department of Transportation - DOT - 49 CFR (Ground)
- DOT Shipping Name: Adhesives, Limited Quantity
- Hazard Class: Class 3, PG II
- UN/ID Number: UN 1133

IATA (Air)
- Proper Shipping Name: Consumer Commodity
- Class or Division: Class 9
- UN/ID Number: ID 8000

IMDG (Vessel)
- Proper Shipping Name: Adhesives, Limited Quantity
- Hazard Class: Class 3, PG II
- UN Number: UN 1133
- Marine Pollutant: None

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.
Methyl methacrylate monomer

California Proposition 65: No California Prop 65 chemicals are known to be present.

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION
Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 3, PHYSICAL HAZARD 0
(NFPA is a registered trademark of the National Fire Protection Association)
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Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
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Revision Date: June 04, 2014
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