



MSDS Name Manufacturer Name Stock No.: Kit MSDS Revision Date

DEVCON® Plastic Welder™ black [1:1]

ITW Devcon DA295

1/15/2011

| Components                      |                         |
|---------------------------------|-------------------------|
|                                 | PLASTIC WELDER ADHESIVE |
|                                 | PW BLACK ACTIVATOR      |
| ITW Devcon Product Code : DA295 |                         |

#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

| Product Name:           | PLASTIC WELDER ADHESIVE                                | HMIS               |         |
|-------------------------|--|--------------------|---------|
| Manufacturer Name:      | ITW Devcon   | Health Hazard      | 2*      |
| Address:                | 30 Endicott Street<br>Danvers, MA 01923                | Fire Hazard        | 3       |
| General Phone Number:   | (978) 777-1100   | Reactivity         | 2       |
| Emergency Phone Number: | (800) 424-9300   | Personal           |         |
| CHEMTREC:               | For emergencies in the US, call CHEMTREC: 800-424-9300 | Protection         | x       |
| Canutec:                | In Canada, call CANUTEC: (613) 996-6666 (call collect) | * Chronic Health I | Effects |
| MSDS Revision Date:     | 1/15/2011  |                    |         |

#### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                 | CAS#       | Ingredient Percent |  |
|-------------------------------|------------|--------------------|--|
| Methacrylic acid              | 79-41-4    | 5 - 10 by weight   |  |
| Methyl Methacrylate Monomer   | 80-62-6    | 30 - 60 by weight  |  |
| Chlorosulfonated polyethylene | 68037-39-8 | 30 - 60 by weight  |  |
| Trade secret.                 | N/A        | 10 - 30 by weight  |  |
| Carbon tetrachloride          | 56-23-5    | 0.1 - 1 by weight  |  |
|                               |            |                    |  |

#### SECTION 3 - HAZARDS IDENTIFICATION

| Emergency Overview:                        | WARNING! Flammable. Harmful. Skin Sensitizer. Irritant.  |
|--|--|
| Route of Exposure:                         | Eyes. Skin. Inhalation. Ingestion.   |
| Potential Health Effects:                  |  |
| Eye:                                       | Can cause moderate irritation, burning sensation, tearing, redness, and swelling.<br>Overexposure may cause lacrimation, conjunctivitis, corneal damage and<br>permanent injury  |
| Skin:                                      | Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.<br>Allergic reactions are possible.<br>May cause skin sensitization, an allergic reaction, which becomes evident on<br>reexposure to this material. |
| Inhalation:                                | Respiratory tract irritant. High concentration may cause dizziness, headache, and<br>anesthetic effects. May cause respiratory sensitization with asthma-like<br>symptoms in susceptible individuals.                                  |
| Ingestion:                                 | Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.   |
| Chronic Health Effects:                    | Prolonged skin contact may lead to burning associated with severe reddening,<br>swelling, and possible tissue destruction.   |
| Signs/Symptoms:                            | Overexposure can cause headaches, dizziness, nausea, and vomiting.   |
| Target Organs:                             | Eyes. Skin. Respiratory system. Digestive system. Liver Kidney. Olfactory Function.  |
| Aggravation of Pre-Existing<br>Conditions: | Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.   |

#### SECTION 4 - FIRST AID MEASURES

| _   | <b>.</b> |
|-----|----------|
| Eye | Contact: |

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure

| DEVCON® Plastic Welder™ black [1:1] | Stock No. DA295 |
|-------------------------------------|-----------------|
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|                  | adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.  |
|------------------|---|
| Skin Contact:    | Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.   |
| Inhalation:      | If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.   |
| Ingestion:       | If swallowed, do NOT induce vomiting. Call a physician or poison control center<br>immediately. Never give anything by mouth to an unconscious person.  |
| Other First Aid: | Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested.<br>Provide a glass of water to dilute the material in the stomach. If vomiting occurs<br>naturally, have the person lean forward to reduce the risk of aspiration. |

# SECTION 5 - FIRE FIGHTING MEASURES

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

| Spill Cleanup Measures:    | Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.<br>Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. |
|----------------------------|--|
|                            | Ventilate area. Use proper personal protective equipment as listed in section 8.   |
| Personnel Precautions:     | Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.   |
| Environmental Precautions: | A void runoff into storm sewers, ditches, and waterways.   |
| Other Precautions:         | Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.  |

| Handling:                    | Use with adequate ventilation. A void breathing vapor, aerosol or mist. Material wil<br>accumulate static charges which may cause an electrical spark (ignition source).<br>Use proper grounding procedures. Do not reuse containers without proper cleanin<br>or reconditioning.  |
|------------------------------|--|
| Storage:                     | Store in a cool, dry, well ventilated area away from sources of heat, combustible<br>materials, direct sunlight, and incompatible substances. Keep container tightly<br>closed when not in use.  |
| Special Handling Procedures: | Provide appropriate ventilation/respiratory protection against decomposition<br>products (see Section 10) during welding/flame cutting operations and to protect<br>against dust during sanding/grinding of cured product. Hazardous liquid or vapor<br>residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut<br>weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of<br>empty containers without proper commercial cleaning or reconditioning. |
| Hygiene Practices:           | Wash thoroughly after handling.  |

# SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

| Engineering Controls: | Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment. |
|-----------------------|--|
|                       |  |

| Eye/Face Protection:         | Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.  |
|------------------------------|---|
| Skin Protection Description: | Wear appropriate protective gloves and other protective apparel to prevent skin<br>contact. Consult manufacturer's data for permeability data.  |
| Respiratory Protection:      | A NIOSH approved air-purifying respirator with an organic vapor cartridge or<br>canister may be permissible under certain circumstances where airborne<br>concentrations are expected to exceed exposure limits. Protection provided by air<br>purifying respirators is limited. Use a positive pressure air supplied respirator if<br>there is any potential for an uncontrolled release, exposure levels are not known,<br>or any other circumstances where air purifying respirators may not provide<br>adequate protection. |
| Other Protective:            | Facilities storing or utilizing this material should be equipped with an eyewash and<br>a deluge shower safety station.   |
| EXPOSURE GUIDELINES          |   |
| Methacrylic acid:            |   |
| Guideline ACGIH:             | 20 ppm<br>TLV-TWA: 20 ppm   |
| Methyl Methacrylate Monomer: |   |
| Guideline ACGIH:             | 50 ppm<br>Sensitizer: Sen<br>TLV-STEL: 100 ppm<br>TLV-TWA: 50 ppm   |
| Guideline OSHA:              | 100 ppm<br>PEL-TWA : 100 ppm  |
| Carbon tetrachloride:        |   |
| Guideline ACGIH:             | 5 ppm<br>Skin: yes<br>TLV-STEL: 10 ppm<br>TLV-TWA: 5 ppm  |
| Guideline OSHA :             | 10 ppm<br>PEL-Ceiling/Peak: 200 ppm Peak<br>PEL-Ceiling/Peak: 25 ppm<br>PEL-TWA : 10 ppm  |
| Notes :                      | Only established PEL and TLV values for the ingredients are listed.   |
|                              |   |

# SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

| Paste                        |
|------------------------------|
| off-white.                   |
| Fragrant.                    |
| 213°F (100.5°C)              |
| Not determined.              |
| 1.0                          |
| Not determined.              |
| > 1 (air = 1)                |
| 28 mmHg @68°F                |
| Not determined.              |
| 3 (butyl acetate = 1)        |
| 3.0-3.5 @ 5 Percent Solution |
| Mixture                      |
| Mixture                      |
| 50°F (10°C)                  |
| Tag Closed Cup (TCC)         |
| Not determined.              |
| <50 g/L mixed.               |
| Not determined.              |
|                              |

# SECTION 10 - STABILITY and REACTIVITY

| Chemical Stability:       | Unstable.   |
|---------------------------|---|
| Hazardous Polymerization: | Polymerization may occur under certain conditions.  |
| Conditions to Avoid:      | Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber. |
| Incompatible Materials:   | Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-<br>compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators.<br>Oxygen scavengers.                     |

#### SECTION 11 - TOXICOLOGICAL INFORMATION

#### Methacrylic acid:

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| RTECS Number:                       | OZ2975000  |
|-------------------------------------|--|
| Skin:                               | Unreported - Rat LD50: 1600 mg/kg [Details of toxic effects not reported other   |
|                                     | than lethal dose value.]   |
|                                     | Oral - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]   |
|                                     | Intraperitoneal Mouse LD50: 48 mg/kg [Details of toxic effects not reported  |
|                                     | other than lethal dose value.]   |
|                                     | Unreported - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than lethal dose value.]  |
|                                     | Oral - Rabbit LD50: 1200 mg/kg [Details of toxic effects not reported other than   |
|                                     | lethal dose value.]  |
|                                     | Administration onto the skin - Rabbit LD50: 500 mg/kg [Details of toxic effects<br>not reported other than lethal dose value.]                             |
|                                     | Administration onto the skin - Guinea pig LD50: 1 gm/kg [Details of toxic effects  |
|                                     | not reported other than lethal dose value.]  |
|                                     | Oral - Rat LD50: 1060 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]   |
| Ingestion:                          | Oral - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than  |
|                                     | lethal dose value.]  |
|                                     | Oral - Rat LD50: 1060 mg/kg [Details of toxic effects not reported other than  |
|                                     | lethal dose value.]  |
| Methyl Methacrylate Monomer:        | 075075000  |
| RTECS Number:                       | OZ5075000<br>Eye - Rabbit Standard Draize Test.: 150 mg  |
| Eye:<br>Skin:                       | Intraperitoneal Guinea pig LD50: 1890 mg/kg [Behavioral - Somnolence   |
| Skiii.                              | (general depressed activity)]  |
|                                     | Subcutaneous - Guinea pig LD50: 5954 mg/kg [Behavioral - Somnolence (general   |
|                                     | depressed activity)]<br>Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma  |
|                                     | Lungs, Thorax, or Respiration - Respiratory depression]  |
|                                     | Intraperitoneal Rat LD50: 1328 mg/kg [Details of toxic effects not reported  |
|                                     | other than lethal dose value.]<br>Subcutaneous - Rat LD50: 7088 mg/kg [Behavioral - Somnolence (general  |
|                                     | depressed activity)]   |
|                                     | Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than  |
|                                     | lethal dose value.]<br>Intraperitoneal Mouse LD50: 945 mg/kg [Behavioral - Somnolence (general   |
|                                     | depressed activity)]   |
|                                     | Subcutaneous - Mouse LD50: 5954 mg/kg [Behavioral - Somnolence (general  |
|                                     | depressed activity)]   |
|                                     |  |
|                                     | Oral - Rabbit LD50: 8700 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]  |
|                                     | Administration onto the skin - Rabbit LD50: >5 gm/kg [Skin and Appendages -  |
|                                     | Dermatitis, other (After systemic exposure)]   |
|                                     | Oral - Guinea pig LD50: 5954 mg/kg [Behavioral - Somnolence (general<br>depressed activity) Behavioral - Ataxia Gastrointestinal - Changes in structure or |
|                                     | function of salivary glands]   |
|                                     | Administration onto the skin - Rabbit Open irritation test: 10 gm  |
| Inhalation:                         | Inhalation - Rat LC50: 78000 mg/m3/4H [Details of toxic effects not reported   |
|                                     | other than lethal dose value.]<br>Inhalation - Mouse LC50: 18500 mg/m3/2H [Details of toxic effects not reported   |
|                                     | other than lethal dose value.]   |
| Ingestion:                          | Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma  |
|                                     | Lungs, Thorax, or Respiration - Respiratory depression]<br>Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than                 |
|                                     | lethal dose value.]  |
| Carbon tetrachloride:               | -  |
| RTECS Number:                       | FG4900000  |
| Eye:                                | Eye - Rabbit Standard Draize Test.: 2200 ug/30S  |
|                                     | Eye - Rabbit Standard Draize Test.: 500 mg/24H   |
| Skin:                               | Oral - Rat LD50: 2350 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]   |
|                                     | Administration onto the skin - Rat LD50: 5070 mg/kg [Details of toxic effects not  |
|                                     | reported other than lethal dose value.]  |
|                                     | Intraperitoneal Rat LD50: 1500 uL/kg [Details of toxic effects not reported<br>other than lethal dose value.]  |
|                                     | Intraperitoneal Mouse LD50: 572 mg/kg [Details of toxic effects not reported   |
|                                     | other than lethal dose value.]   |
|                                     | Subcutaneous - Mouse LD50: 31 gm/kg [Behavioral - Sleep Behavioral - Ataxia]   |
|                                     | Administration onto the skin - Rabbit LD50: >20 gm/kg [Details of toxic effects  |
|                                     | not reported other than lethal dose value.]  |
|                                     | Intravenous Rabbit LD50: 5840 mg/kg [Behavioral - Excitement Behavioral - Coma Lungs, Thorax, or Respiration - Dyspnea]                                    |
|                                     | Administration onto the skin - Guinea pig LD50: >9400 uL/kg [Details of toxic  |
|                                     | effects not reported other than lethal dose value.]  |
|                                     |  |
|                                     |  |
|                                     | Oral - Mouse LD50: 7749 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]   |
|                                     | Oral - Guinea pig LD50: 5760 mg/kg [Details of toxic effects not reported other  |
|                                     | than lethal dose value.]   |
|                                     | Oral - Rabbit LD50: 5760 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]  |
|                                     | Intraperitoneal Mouse LD50: 572 mg/kg [Liver - Hepatitis (hepatocellular   |
|                                     | necrosis), zonal Liver - Liver function tests impaired]<br>Intraperitoneal Mouse LD50: 1.25 mL/kg [Details of toxic effects not reported                   |
|                                     | other than lethal dose value.]   |
|                                     | -  |
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| Inhalation:      | Inhalation - Rat LC50: 8000 ppm/4H [Details of toxic effects not reported other than lethal dose value.]<br>Inhalation - Mouse LC50: 9526 ppm/8H [Details of toxic effects not reported other than lethal dose value.]<br>Inhalation - Mouse LC50: 34500 mg/m3/2H [Details of toxic effects not reported other than lethal dose value.]<br>Inhalation - Rat LC50: 46000 mg/m3/6H [Details of toxic effects not reported other than lethal dose value.] |
|------------------|--|
| Ingestion:       | Oral - Rat LD50: 2350 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]<br>Oral - Mouse LD50: 7749 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]   |
| Carcinogenicity: | IARC: Group 2B: Possibly carcinogenic to humans.<br>NTP: Reasonably anticipated to be a human carcinogen.  |

### SECTION 12 - ECOLOGICAL INFORMATION

| Ecotoxicity:        | No ecotoxicity data was found for the product.       |
|---------------------|--|
| Environmental Fate: | No environmental information found for this product. |

#### SECTION 13 - DISPOSAL CONSIDERATIONS

| Waste Disposal:                 | Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the<br>classifications of hazardous waste prior to disposal. Furthermore, consult with your<br>state and local waste requirements or guidelines, if applicable, to ensure<br>compliance. Arrange disposal in accordance to the EPA and/or state and local<br>guidelines. |
|---------------------------------|---|
| RCRA Number:                    | D001, D019  |
| Important Disposal Information: | DANGER! Rags, steel wool and waste soaked with this product may spontaneously<br>catch fire if improperly discarded or stored. To avoid a spontaneous combustion<br>fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled,<br>metal container.   |

#### SECTION 14 - TRANSPORT INFORMATION

| DOT Shipping Name: | Adhesives                      |
|--------------------|--------------------------------|
| DOT UN Number:     | 1133                           |
| DOT Hazard Class:  | 3                              |
| DOT Packing Group: | II                             |
| DOT Exemption:     | ORM-D Small quantity exemption |

### SECTION 15 - REGULATORY INFORMATION

| Methacr | lic acid/ | ÷., |
|---------|-----------|-----|
|         |           |     |

| Methacrylic acid :              |   |
|---------------------------------|---|
| TSCA Inventory Status:          | Listed  |
| Massachussetts:                 | Listed: Massachusetts Oil and Hazardous List  |
| Pennsylvania:                   | Listed  |
| Canada DSL:                     | Listed  |
| Methyl Methacrylate Monomer:    |   |
| TSCA Inventory Status:          | Listed  |
| SARA:                           | EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.   |
| NewJersey:                      | Listed: NJ Hazardous List; Substance Number: 1277   |
| Massachussetts:                 | Listed: Massachusetts Oil and Hazardous List  |
| Pennsylvania:                   | Listed  |
| Canada DSL:                     | Listed  |
| Chlorosulfonated polyethylene : |   |
| TSCA Inventory Status:          | Listed  |
| Canada DSL:                     | Listed  |
| Carbon tetrachloride :          |   |
| TSCA Inventory Status:          | Listed  |
| SARA:                           | EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.   |
| California PROP 65:             | Listed: cancer  |
| NewJersey:                      | Listed: NJ Hazardous List; Substance Number: 0347   |
| Massachussetts:                 | Listed: Massachusetts Oil and Hazardous List  |
| Pennsylvania:                   | Listed  |
| Canada DSL:                     | Listed  |
| Canadian Regulations.           | WHMIS Hazard Class(es): B2; D2B<br>All components of this product are on the Canadian Domestic Substances List. |
|                                 |   |

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# SECTION 16 - ADDITIONAL INFORMATION

| HMIS Fire Hazard:         | 3  |
|---------------------------|--|
| HMIS Health Hazard:       | 2*   |
| HMIS Reactivity:          | 2  |
| HMIS Personal Protection: | х  |
| MSDS Revision Date:       | 1/15/2011  |
| MSDS Author:              | Actio Corporation  |
| Disclaimer:               | This Health and Safety Information is correct to the best of our knowledge and<br>belief at the date of its publication but we cannot accept liability for any loss,<br>injury or damage which may result from its use. The information given in the Data<br>Sheet is designed only as a guidance for safe handling, storage and the use of the<br>substance. It is not a specification nor does it guarantee any specific properties.<br>All chemicals should be handled only by competent personnel, within a controlled<br>environment. |

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#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

| Product Name:                        | PW BLACK ACTIVATOR   | HMIS                   |         |
|--------------------------------------|--|------------------------|---------|
| Manufacturer Name:                   | ITW Devcon   | Health Hazard          | 2*      |
| Address:                             | 30 Endicott Street<br>Danvers, MA 01923                                  | Fire Hazard            | 3       |
| General Phone Number:                | (978) 777-1100   | Reactivity             | 2       |
| Emergency Phone Number:<br>CHEMTREC: | (800) 424-9300<br>For emergencies in the US, call CHEMTREC: 800-424-9300 | Personal<br>Protection | x       |
| Canutec:<br>MSDS Revision Date:      | In Canada, call CANUTEC: (613) 996-6666 (call collect)<br>1/15/2011      | * Chronic Health       | Effects |

#### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                                     | CAS#       | Ingredient Percent |
|---|------------|--------------------|
| Methyl Methacrylate Monomer                       | 80-62-6    | 60 - 100 by weight |
| Trade secret.                                     | N/A        | 5 - 10 by weight   |
| 3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine | 34562-31-7 | 1 - 5 by weight    |
| Non-hazardous ingredients.                        | N/A        | 10 - 30 by weight  |
| Epoxidized soybean oil                            | 8013-07-8  | 1 - 5 by weight    |
| Carbon black                                      | 1333-86-4  | 0.1 - 1 by weight  |
|   |            |                    |

# SECTION 3 - HAZARDS IDENTIFICATION

| Emergency Overview:                        | WARNING! Flammable. Harmful. Skin Sensitizer. Irritant.  |
|--|--|
| Route of Exposure:                         | Eyes. Skin. Inhalation. Ingestion.   |
| Potential Health Effects:                  |  |
| Eye:                                       | Can cause moderate irritation, burning sensation, tearing, redness, and swelling.<br>Overexposure may cause lacrimation, conjunctivitis, corneal damage and<br>permanent injury  |
| Skin:                                      | Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.<br>Allergic reactions are possible.<br>May cause skin sensitization, an allergic reaction, which becomes evident on<br>reexposure to this material. |
| Inhalation:                                | Respiratory tract irritant. High concentration may cause dizziness, headache, and<br>anesthetic effects. May cause respiratory sensitization with asthma-like<br>symptoms in susceptible individuals.                                  |
| Ingestion:                                 | Causes irritation, a burning sensation of the mouth, throat and gastrointestinal<br>tract and abdominal pain.  |
| Chronic Health Effects:                    | Prolonged skin contact may lead to burning associated with severe reddening,<br>swelling, and possible tissue destruction.   |
| Signs/Symptoms:                            | Overexposure can cause headaches, dizziness, nausea, and vomiting.   |
| Target Organs:                             | Eyes. Skin. Respiratory system. Digestive system. Liver Kidney. Olfactory Function.  |
| Aggravation of Pre-Existing<br>Conditions: | Individuals with pre-existing skin disorders, asthma, allergies or known<br>sensitization may be more susceptible to the effects of this product.  |
|  |  |

| SECTION 4 - FIRST AID MEASURES      |                 |
|-------------------------------------|-----------------|
|                                     |                 |
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| Eye Contact:     | Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure<br>adequate flushing of the eyes by separating the eyelids with fingers. Get<br>immediate medical attention.  |
|------------------|---|
| Skin Contact:    | Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes.<br>Get medical attention if irritation develops or persists.  |
| Inhalation:      | If inhaled, remove to fresh air. If not breathing, give artificial respiration or give<br>oxygen by trained personnel. Seek immediate medical attention.  |
| Ingestion:       | If swallowed, do NOT induce vomiting. Call a physician or poison control center<br>immediately. Never give anything by mouth to an unconscious person.  |
| Other First Aid: | Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested.<br>Provide a glass of water to dilute the material in the stomach. If vomiting occurs<br>naturally, have the person lean forward to reduce the risk of aspiration. |

#### SECTION 5 - FIRE FIGHTING MEASURES

| Flammable Properties:            | Flammable. Fine mists explosive below flash point.  |
|----------------------------------|---|
|                                  | · · ·   |
| Flash Point:                     | 50°F (10°C)   |
| Flash Point Method:              | Tag Closed Cup (TCC)  |
| Auto Ignition Temperature:       | Not determined.   |
| Lower Flammable/Explosive Limit: | 2.1%  |
| Upper Flammable/Explosive Limit: | 12.5%   |
| Fire Fighting Instructions :     | Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed<br>containers to minimize risk of rupture. Do not enter confined fire space without full<br>protective gear. If possible, contain fire run-off water. |
| Extinguishing Media:             | Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.   |
| Unsuitable Media:                | Water may cause frothing.   |
| Protective Equipment:            | As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.   |
| Unusual Fire Hazards:            | Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.   |

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

| Spill Cleanup Measures:    | Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.<br>Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.<br>Ventilate area. Use proper personal protective equipment as listed in section 8. |
|----------------------------|--|
| Personnel Precautions:     | Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.   |
| Environmental Precautions: | Avoid runoff into storm sewers, ditches, and waterways.  |
| Other Precautions:         | Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.  |

| Handling:                    | Use with adequate ventilation. A void breathing vapor, aerosol or mist. Material wil<br>accumulate static charges which may cause an electrical spark (ignition source).<br>Use proper grounding procedures. Do not reuse containers without proper cleanin<br>or reconditioning.  |
|------------------------------|--|
| Storage:                     | Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.  |
| Special Handling Procedures: | Provide appropriate ventilation/respiratory protection against decomposition<br>products (see Section 10) during welding/flame cutting operations and to protect<br>against dust during sanding/grinding of cured product. Hazardous liquid or vapor<br>residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut<br>weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of<br>empty containers without proper commercial cleaning or reconditioning. |
| Hygiene Practices:           | Wash thoroughly after handling.  |

# SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

|  | Engineering Controls: |  |
|--|-----------------------|--|
|--|-----------------------|--|

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|                              | inspection and maintenance of the personal protective equipment.  |
|------------------------------|---|
| Eye/Face Protection:         | Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.  |
| Skin Protection Description: | Wear appropriate protective gloves and other protective apparel to prevent skin<br>contact. Consult manufacturer's data for permeability data.  |
| Respiratory Protection:      | A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. |
| Other Protective:            | Facilities storing or utilizing this material should be equipped with an eyewash and<br>a deluge shower safety station.   |
| EXPOSURE GUIDELINES          |   |
| Methyl Methacrylate Monomer: |   |
| Guideline ACGIH:             | 50 ppm<br>Sensitizer: Sen<br>TLV-STEL: 100 ppm<br>TLV-TWA: 50 ppm   |
| Guideline OSHA:              | 100 ppm<br>PEL-TWA : 100 ppm  |
| Carbon black:                |   |
| Guideline ACGIH:             | 3.5 mg/m3<br>TLV-TWA: 3.5 mg/m3   |

Only established PEL and TLV values for the ingredients are listed.

Notes :

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

| Physical State Appearance: | Paste                        |
|----------------------------|------------------------------|
| O dor:                     | Fragrant.                    |
| Boiling Point:             | 213°F (100.5°C)              |
| Melting Point:             | Not determined.              |
| Specific Gravity:          | 0.96                         |
| Solubility:                | Not determined.              |
| Vapor Density:             | 3.5 (air = 1)                |
| Vapor Pressure:            | 28 mmHg @68°F                |
| Percent Volatile:          | Not determined.              |
| Evaporation Rate:          | 3 (butyl acetate = 1)        |
| pH:                        | 4.5-5.5 @ 5 Percent Solution |
| Molecular Formula:         | Mixture                      |
| Molecular Weight:          | Mixture                      |
| Flash Point:               | 50°F (10°C)                  |
| Flash Point Method:        | Tag Closed Cup (TCC)         |
| Auto Ignition Temperature: | Not determined.              |
| VOC Content:               | <50 g/L mixed.               |
| Percent Solids by Weight   | Not determined.              |
|                            |                              |

| SECTION 10 · | STABILITY and | REACTIVITY |
|--------------|---------------|------------|
|--------------|---------------|------------|

| Chemical Stability:       | Unstable.   |
|---------------------------|---|
| Hazardous Polymerization: | Polymerization may occur under certain conditions.  |
| Conditions to Avoid:      | Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and<br>oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing<br>conditions. Material can soften paint and rubber. |
| Incompatible Materials :  | Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-<br>compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators.<br>Oxygen scavengers.                           |

# SECTION 11 - TOXICOLOGICAL INFORMATION

| Methyl Methacrylate Monomer:        |  |
|-------------------------------------|--|
| RTECS Number:                       | OZ5075000  |
| Eye:                                | Eye - Rabbit Standard Draize Test.: 150 mg   |
| Skin:                               | Intraperitoneal Guinea pig LD50: 1890 mg/kg [Behavioral - Somnolence<br>(general depressed activity)]<br>Subcutaneous - Guinea pig LD50: 5954 mg/kg [Behavioral - Somnolence (general<br>depressed activity)]<br>Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma<br>Lungs, Thorax, or Respiration - Respiratory depression]<br>Intraperitoneal Rat LD50: 1328 mg/kg [Details of toxic effects not reported |
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|                         | other than lethal dose value.]<br>Subcutaneous - Rat LD50: 7088 mg/kg [Behavioral - Somnolence (general  |
|-------------------------|--|
|                         | depressed activity)]   |
|                         | Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than lethal dose value.]  |
|                         | Intraperitoneal Mouse LD50: 945 mg/kg [Behavioral - Somnolence (general depressed activity)]   |
|                         | Subcutaneous - Mouse LD50: 5954 mg/kg [Behavioral - Somnolence (general depressed activity)]   |
|                         | Oral - Rabbit LD50: 8700 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]<br>Administration onto the skin - Rabbit LD50: >5 gm/kg [Skin and Appendages -<br>Dermatitis, other (After systemic exposure)]<br>Oral - Guinea pig LD50: 5954 mg/kg [Behavioral - Somnolence (general<br>depressed activity) Behavioral - Ataxia Gastrointestinal - Changes in structure or |
|                         | function of salivary glands]<br>Administration onto the skin - Rabbit Open irritation test: 10 gm  |
| Inhalation:             | Inhalation - Rat LC50: 78000 mg/m3/4H [Details of toxic effects not reported other than lethal dose value.]<br>Inhalation - Mouse LC50: 18500 mg/m3/2H [Details of toxic effects not reported other than lethal dose value.]   |
| Ingestion:              | Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma<br>Lungs, Thorax, or Respiration - Respiratory depression]<br>Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than<br>lethal dose value.]   |
| Epoxidized soybean oil: |  |
| RTECS Number:           | LL1100000  |
| Skin:                   | Oral - Rat LD50 : 22500 uL/kg [Details of toxic effects not reported other than lethal dose value.]<br>Administration onto the skin - Rabbit LD50 : >20 mL/kg [Details of toxic effects not reported other than lethal dose value.]<br>Administration onto the skin - Rabbit Open irritation test: 500 mg [mild]   |
| Ingestion:              | Oral - Rat LD50 : 22500 uL/kg [Details of toxic effects not reported other than lethal dose value.]  |
| Carbon black:           |  |
| RTECS Number:           | FF5800000  |
| Skin:                   | Oral - Rat LD50: >15400 mg/kg [Behavioral - Somnolence (general depressed activity)]<br>Administration onto the skin - Rabbit LD50: >3 gm/kg [Details of toxic effects not reported other than lethal dose value.]   |
| Ingestion:              | Oral - Rat LD50: >15400 mg/kg [Behavioral - Somnolence (general depressed activity)]   |
| Carcinogenicity:        | IARC: Group 2B: Possibly carcinogenic to humans.   |

# SECTION 12 - ECOLOGICAL INFORMATION

| Ecotoxicity:        | No ecotoxicity data was found for the product.       |
|---------------------|--|
| Environmental Fate: | No environmental information found for this product. |

# SECTION 13 - DISPOSAL CONSIDERATIONS

| Waste Disposal:                 | Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the<br>classifications of hazardous waste prior to disposal. Furthermore, consult with your<br>state and local waste requirements or guidelines, if applicable, to ensure<br>compliance. Arrange disposal in accordance to the EPA and/or state and local<br>guidelines. |
|---------------------------------|---|
| RCRA Number:                    | D001  |
| Important Disposal Information: | DANGER! Rags, steel wool and waste soaked with this product may spontaneously<br>catch fire if improperly discarded or stored. To avoid a spontaneous combustion<br>fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled,<br>metal container.   |

# SECTION 14 - TRANSPORT INFORMATION

| DOT Shipping Name: | Adhesives |
|--------------------|-----------|
| DOT UN Number:     | 1133      |
| DOT Hazard Class:  | 3         |
| DOT Packing Group: | II        |

# SECTION 15 - REGULATORY INFORMATION

#### Methyl Methacrylate Monomer:

TSCA Inventory Status: Listed

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| SARA:                              | EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.  |
|------------------------------------|--|
| New Jersey:                        | Listed: NJ Hazardous List; Substance Number: 1277  |
| Massachussetts:                    | Listed: Massachusetts Oil and Hazardous List   |
| Pennsylvania:                      | Listed   |
| Canada DSL:                        | Listed   |
| 3,5-Diethyl-1,2-dihydro-1-phenyl-2 | <u>P-propylpyridine</u> :  |
| TSCA Inventory Status:             | Listed   |
| Canada DSL:                        | Listed   |
| Epoxidized soybean oil :           |  |
| TSCA Inventory Status:             | Listed   |
| Canada DSL:                        | Listed   |
| Carbon black :                     |  |
| TSCA Inventory Status:             | Listed   |
| California PROP 65:                | Listed: cancer   |
| Massachussetts:                    | Listed   |
| Pennsylvania:                      | Listed   |
| Canada DSL:                        | Listed   |
| Canadian Regulations.              | WHMIS Hazard Class(es): B2; D2B; D2A<br>All components of this product are on the Canadian Domestic Substances List. |

# SECTION 16 - ADDITIONAL INFORMATION

| HMIS Fire Hazard:         | 3  |
|---------------------------|--|
| HMIS Health Hazard:       | 2*   |
| HMIS Reactivity:          | 2  |
| HMIS Personal Protection: | x  |
| MSDS Revision Date:       | 1/15/2011  |
| MSDS Author:              | Actio Corporation  |
| Disclaimer:               | This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. |

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