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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **PLASTIC WELDER II ADHESIVE**  
Stock No.: DA305  
Manufacturer Name: ITW Devcon  
Address: 30 Endicott Street  
Danvers, MA 01923  
MSDS Revision Date: 10/10/2006  
Emergency telephone number (800) 424-9300

### HMIS

|                     |    |
|---------------------|----|
| Health Hazard       | 2* |
| Fire Hazard         | 3  |
| REACTIVITY          | 2  |
| Personal Protection | X  |

\* Chronic Health Effects:

In the US, call CHEMTREC: (800) 424-9300

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                     | CAS#       |                   |
|-----------------------------------|------------|-------------------|
| Trade secret.                     | N/A        | 5 - 10 by Weight  |
| Non-hazardous ingredients.        | N/A        | 5 - 10 by Weight  |
| Methyl Methacrylate Monomer       | 80-62-6    | 30 - 60 by Weight |
| Chlorosulfonated polyethylene     | 68037-39-8 | 30 - 60 by Weight |
| Maleic acid                       | 110-16-7   | 1 - 5 by Weight   |
| 2,6-Di-tertiary-butyl-para-cresol | 128-37-0   | 1 - 5 by Weight   |
| Carbon tetrachloride              | 56-23-5    | 0.1 - 1 by Weight |

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## SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Flammable. Harmful. Skin Sensitizer. Irritant.

Primary Routes of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

**Eye Contact:** Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

**Skin Contact:** Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

**Inhalation:** Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like 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, 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 Conditions:** Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

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## SECTION 4: FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure 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 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. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

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## SECTION 5: FIRE FIGHTING MEASURES

**Flammable Properties :** Flammable. Fine mists explosive below flash point.

**Auto Ignition Temp :** Not determined.

**Flash Point:** 50°F (10°C)

**Flash Point Method:** Tag closed cup (TCC)

**Lower Explosive Limit (LEL)** 2.1%

**Upper Explosive Limit (UEL)** 12.5%

**Extinguishing Media:** Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

**Protective Equipment:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

**Unsuitable Media:** Water may cause frothing.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

**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. 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.

**Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways.

**Other Precautions:** Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

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## SECTION 7: HANDLING AND STORAGE

**Handling:** Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning 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.

**Hygiene Practices:** Wash thoroughly after handling.

**Special Handling Procedures:** Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources

**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

|                                     |  |
|-------------------------------------|--|
| <b>Engineering Controls:</b>        | 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. |
| <b>Skin Protection Description:</b> | Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.  |
| <b>Eye/Face Protection:</b>         | 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.   |
| <b>Respiratory Protection:</b>      | 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.  |
| <b>Other Protective:</b>            | Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.   |

**Methyl Methacrylate Monomer:**

Guideline ACGIH : ACGIH TLV-TWA 50 ppm

Guideline OSHA : OSHA PEL-TWA 100 ppm

**2,6-Di-tertiary-butyl-para-cresol:**Guideline ACGIH : ACGIH TLV-TWA 2 mg/m<sup>3</sup>**Carbon tetrachloride:**

Guideline ACGIH : ACGIH TLV-STEL 10 ppm

Guideline OSHA : OSHA PEL-TWA 10 ppm

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

[To Top of page](#)**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Physical State/Appearance:</b> | Paste.          |
| <b>Color:</b>                     | off-white.      |
| <b>Odor:</b>                      | Fragrant.       |
| <b>Boiling Point:</b>             | 213°F (100.5°C) |
| <b>Melting / Freezing Point :</b> | -54°F (-47.7°C) |
| <b>Solubility:</b>                | Not determined. |
| <b>Specific Gravity:</b>          | 0.93-1.05       |
| <b>Vapor Density:</b>             | 3.5 (air = 1)   |
| <b>Vapor Pressure:</b>            | 28 mmHg @68°F   |
| <b>Molecular Formula:</b>         | Mixture         |
| <b>Molecular Weight:</b>          | Mixture         |
| <b>Percent Volatile:</b>          | Not determined. |
| <b>VOC Data :</b>                 | <50 g/L mixed.  |
| <b>Percent Solids by Weight</b>   | Not determined. |

[To Top of page](#)**SECTION 10: STABILITY AND REACTIVITY**

|  |   |
|--|---|
| <b>Chemical Stability:</b>                     | Unstable  |
| <b>Conditions to Avoid:</b>                    | 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. |
| <b>Incompatibilities with Other Materials:</b> | Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.                            |
| <b>Hazardous Polymerization:</b>               | Polymerization may occur under certain conditions.  |

[To Top of page](#)**SECTION 11: TOXICOLOGICAL INFORMATION****Methyl Methacrylate Monomer:**

**Eye Effect:** Eye - Rabbit Standard Draize Test : 150 mg(RTECS)  
**Skin Effects:** Skin - Rabbit Open irritation test: 10 gm(RTECS)  
Skin - Rabbit LD50: >5 gm/kg - [Skin and Appendages - dermatitis, other (after systemic exposure) ](RTECS)  
Skin - Human TLo - Lowest published toxic concentration: 2 pph - [Skin and Appendages - dermatitis, allergic (after topical exposure) ](RTECS)  
**Inhalation Effects:** Inhalation - Rat LC50: 78000 mg/m3/4H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
Inhalation - Mouse LC50: 18500 mg/m3/2H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
**Ingestion Effects:** Oral - Rat LD50: 7872 mg/kg - [oral - muscle weakness oral - coma Lungs, Thorax, or rat - rat depression ] (RTECS)  
Oral - Mouse LD50: 3625 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)

#### **Maleic acid:**

**Eye Effect:** Eye - Rabbit Standard Draize Test: 1%/2M - [severe](RTECS)  
**Skin Effects:** Skin - Rabbit Standard Draize Test: 500 mg/24H - [mild](RTECS)  
Skin - Rabbit LD50: 1560 mg/kg - [Behavioral - tremor](RTECS)  
**Inhalation Effects:** Inhalation - Rat LC50: >720 mg/m3/1H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
**Ingestion Effects:** Oral - Rat LD50: 708 mg/kg - [oral - convulsions or effect on seizure threshold oral - muscle weakness Gastrointestinal - rat or bleeding from stomach] (RTECS)  
Oral - Mouse LD50: 2400 mg/kg - [Tumorigenic - active as anti-cancer agent] (RTECS)

#### **2,6-Di-tertiary-butyl-para-cresol:**

**Eye Effect:** Eye - Rabbit Standard Draize Test : 100 mg/24H - [Moderate](RTECS)  
**Skin Effects:** Skin - Rabbit Standard Draize Test : 500 mg/48H - [Moderate](RTECS)  
**Ingestion Effects:** Oral - Rat LD50: 890 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)  
Oral - Mouse LD50: 650 mg/kg - [oral - tremor Lungs, Thorax, or rat - chronic pulmonary edema ] (RTECS)  
Oral - Mouse LD50: 1040 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)  
Oral - Mouse LD50: 650 mg/kg - [oral - tremor oral - ataxia Lungs, Thorax, or rat - other changes ] (RTECS)

#### **Carbon tetrachloride:**

**Eye Effect:** Eye - Rabbit Standard Draize Test : 500 mg/24H - [mild](RTECS)  
**Skin Effects:** Skin - Rabbit Standard Draize Test : 500 mg/24H - [mild](RTECS)  
Skin - Rat LD50: 5070 mg/kg - [Details of toxic effects not reported other than lethal dose value ](RTECS)  
Skin - Rabbit LD50: >20 gm/kg - [Details of toxic effects not reported other than lethal dose value ](RTECS)  
Skin - Guinea pig LD50: >9400 uL/kg - [Details of toxic effects not reported other than lethal dose value ](RTECS)  
**Inhalation Effects:** Inhalation - Rat LC50: 46000 mg/m3/6H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
Inhalation - Mouse LC50: 9526 ppm/8H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
Inhalation - Mouse LC50: 34500 mg/m3/2H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
**Ingestion Effects:** Oral - Rat LD50: 2350 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)  
Oral - Mouse LD50: 7749 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)  
**Carcinogenicity:** IARC: Group 2B: Possibly carcinogenic to humans  
NTP: Reasonably anticipated to be a human carcinogen

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## **SECTION 12: ECOLOGICAL INFORMATION**

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

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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

**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

[To Top of page](#)**SECTION 15: REGULATORY INFORMATION****WHMIS Pictograms****Methyl Methacrylate Monomer:**

State: Listed in the State of Massachusetts Hazardous Substance List.  
 Listed in the New Jersey State Right to Know List.  
 Listed in the Pennsylvania State Hazardous Substances List.

EC Num : 607-035-00-6

**Maleic acid:**

State: Listed in the State of Massachusetts Hazardous Substance List.  
 Listed in the Pennsylvania State Hazardous Substances List.

EC Num : 607-095-00-3

**2,6-Di-tertiary-butyl-para-cresol:**

State: Listed in the State of Massachusetts Hazardous Substance List.  
 Listed in the Pennsylvania State Hazardous Substances List.

**Carbon tetrachloride:**

State: Listed in the State of Massachusetts Hazardous Substance List.  
 Listed in the New Jersey State Right to Know List.  
 Listed in the Pennsylvania State Hazardous Substances List.

EC Num : 602-008-00-5

Canadian Regulations. WHMIS Hazard Class(es): B2; D2B  
 All components of this product are on the Canadian Domestic Substances List.

[To Top of page](#)**SECTION 16: ADDITIONAL INFORMATION**

HMIS Health Hazard: 2\*  
 HMIS Fire Hazard: 3  
 HMIS Reactivity: 2  
 HMIS Personal Protection: X  
 MSDS Revision Date: 10/10/2006  
 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."