

MSDS# PWU
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Pro-Weld Universal PVC Cement

SECTION 1. PRODUCT NAME

Product Name: Pro-Weld PVC Cement (Universal-PVC/ABS/CPVC)
 Catalog No. PWU-4, PWU-8, PWU-16
 Manufactured For: Diversitech
 Address: 6650 Sugarloaf Parkway, Duluth, GA
 CHEM-TEL Phone: (800) 255-3924 – (Chemical Emergencies Only)
 Other Calls (Product Information): (800) 995-2222
 Fax: (678-542-3700)
 Chemical Name: Mixture
 Chemical Family: Adhesive
 Chemical Formula: Proprietary
 Product Use: PVC pipe Solvent Cement
 Prepared By: Anthony Jernigan

SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO	OSHA PEL	ACIGH TLV	OTHER STEL	% or Range
Acetone	67-64-1	500	750	750	5-10
Cyclohexanone	108-94-1	200	200		10-20
Methyl Ethyl Ketone	78-93-3	200	200	300	30-50
CPVC Resin	68648-82-8	10mg/m3 (dust)			10-20
Tetrahydrofuran	100-999-9	50	200	250	20-30

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview: Clear - cloudy liquid with ether-like odor. Extremely flammable liquid and vapors. May cause irritation to skin, eye, respiratory tract and other mucous membranes.

Potential Health Effects: Routes of exposure include; inhalation, skin absorption, skin contact, eye contact and ingestion.

Eyes: Can cause irritation and permanent eye injury. Symptoms include stinging, tearing, redness and swelling of eyes.

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin and cause dermatitis. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

Ingestion: If ingestion occurs seek medical attention immediately. May cause irritation of nose, throat and can lead to liver and kidney damage. May be fatal if swallowed.

Inhalation: May cause irritation to the nose, throat, mucous membranes and other tissues of the respiratory system. Symptoms include dizziness, drowsiness, fatigue, headache, nausea, coughing and shortness of breath. Overexposure may cause liver and kidney damage.

HEALTH HAZARDS:

Acute: Over exposure to this product can be irritating to the eyes, skin and mucous membranes, and can also cause central-nervous system effects (dizziness, nausea and headaches). Ingestion of this product, or inhalation of high concentrations of this product's vapors, may be fatal.

Chronic: Prolonged or repeated skin exposures can lead to dermatitis. May cause conjunctivitis with prolonged or repeated eye exposure. May cause liver, kidney and reproductive damage.

Medical Conditions Aggravated by Exposure: Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung, liver, kidney.

SECTION 4. FIRST AID

Immediately move individual away from exposure into fresh air. Flush eye gently with water for at least 15 minutes while holding eyelids apart. Seek immediate medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center. Do not induce vomiting.

Inhalation: Move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen; seek medical attention immediately.

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SECTION 5. FIREFIGHTING MEASURES

Flash Point: -6°F/-14°C (TCC)

Lower Flammable Limit: 1.8%

Upper Flammable Limit: 11.8%

Fire Extinguishing Media: Use foam, carbon dioxide (CO₂), dry chemical.

Special Fire Fighting Procedures: Incipient fire responders should wear eye protection. Firefighters must wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards: Class IB Flammable Liquid. Keep away from sources of heat, sparks or flame. If ignited, may form carbon dioxide and carbon monoxide, various hydrocarbon vapors and toxic gases. Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point.

SECTION 6. SPILL/ACCIDENTAL RELEASE MEASURES

Spill or Leak: Eliminate all ignition sources (flares, flames including pilot lights electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean metal containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal in accordance with U.S. Federal, State, or local procedures

SECTION 7. HANDLING AND STORAGE

Handling and Storage Precautions : Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames. If transferring this material to other containers, ground all containers to avoid static electricity buildup and discharge which may ignite flammable vapors.

Other Precautions: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, solid) all hazard precautions given in the data sheet must be observed. Avoid prolonged or repeated contact with skin or clothing.

SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Respiratory Protection: In confined or poorly ventilated areas, use NIOSH/MSHA approved air respirators. Use only protection authorized in 29 CFR 1910.134 or applicable State regulations.

Eye Protection: Splash goggles or safety glasses.

Hand Protection: Wear rubber gloves

Other Protection: Wear protective clothing appropriate for task (coveralls, apron, Tyvek suit)

Specific Engineering Controls (such as ventilation, enclosed process): Use in well ventilated area. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. Mechanical exhaust (explosion proof) may be required. Emergency eye-wash / safety showers are needed where there is the possibility that an employee's eyes may be exposed to this material, the employer should provide an eye-wash fountain / safety shower within the work area for emergency use.

SECTION 9. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 151°F / 66°C

Vapor pressure (mm Hg @ 20°F): 143

Evaporation Rate (Butyl Ac = 1): -8

Solubility in water: Negligible

Appearance: Clear to cloudy liquid.

Specific gravity: 0.91

Vapor Density (Air = 1): 2.5 @ 70°F

% Volatile by Weight: 80-90

pH @ 25°C: N/A

Odor: Sweet ether-like odor

SECTION 10. STABILITY AND REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride

Hazardous Polymerization: Will not occur under normal conditions of storage and handling.

Incompatibilities: Avoid contact with strong oxidizing agents, strong alkalis and strong acids.

Conditions to Avoid: Heat, sparks, flames and other sources of ignition.

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SECTION 11. TOXICOLOGY INFORMATION

Sensitization: None of the components of this product are known to cause sensitization.

Suspected Cancer Agent: None of the components of this product are listed as an IARC, NTP or OSHA carcinogen.

Tetrahydrofuran – The National Toxicology Program has reported that exposures of mice and rats to THF vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health are unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF. ACGIH has classified Cyclohexanone and Tetrahydrofuran as "A3", Confirmed Animal Carcinogens with Unknown Relevance to Humans.

Reproductive Toxicity: This product is not reported to produce reproductive effects in humans. Reproductive toxicity data is available for Acetone, Methyl Ethyl Ketone, Cyclohexanone and Tetrahydrofuran; obtained through clinical studies on test animals exposed to relatively high doses.

Mutagenicity: This product is not reported to produce mutagenic effects in humans. Human mutation data is available for Cyclohexanone; obtained through clinical studies on specific human tissues exposed to relatively high doses. Animal mutation data is available for Acetone, Methyl Ethyl Ketone and Tetrahydrofuran; obtained through clinical studies on specific animal tissues or micro-organisms exposed to relatively high doses.

Medical Conditions Aggravated By Exposure: Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung, liver, kidney.

Tetrahydrofuran: Oral rat LD50: 1,650 mg/kg

Inhalation rat LC50: 21,000 ppm / 3 hours

Cyclohexanone: Oral rat LD50: 1,620 mg/kg

Skin rabbit LD50: 1 mL/kg

Inhalation rat LC50: 8,000 ppm / 4 hours

Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg

Skin rabbit LD50: 6,480 mg/kg

Inhalation rat LC50: 23,500 mg/m³ / 8 hours

Acetone: Oral rat LD50: 5,800 mg/kg

Inhalation rat LC50: 50,100 mg/m³ / 8 hours

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: This product is not expected to be toxic to aquatic organisms.

Partition Coefficient: Log POW = Not established

Tetrahydrofuran: 96 hour LC50 fathead minnow: 2160 mg/l

Cyclohexanone: 96 hour LC50 values for fish is over 100 mg/l

Methyl Ethyl Ketone: 96 hour LC50 values for fish is over 100 mg/l

Acetone: 96 hour LC50 values for fish is over 100 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. All spent material must be disposed of in accordance with all applicable Federal and State RCRA Regulations. Consult with appropriate regulatory agencies before disposing of waste material. The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method. The unused product is an RCRA hazardous waste if discarded. The RCRA ID number(s) are: D001, D035, F003, F005

EPA Hazard Waste Class:

Ignitable Waste (Acetone, Methyl Ethyl Ketone content)

Toxic Waste (Methyl Ethyl Ketone content)

SECTION 14. TRANSPORTATION INFORMATION

US DOT: Consumer Commodity (for containers of with a capacity of 1 liter or less), ORM-D

For Containers with a capacity of more than 1 liter: UN1133, Adhesive (containing a flammable liquid), 3, PG 111

INTERNATIONAL

Water, I.M.O.:

Dangerous Goods Description: UN1133, Adhesive (Containing a flammable liquid), Class 3, PGIII, Ltd Qty.

Marine Pollutant: No

For Transportation Emergency, refer to 2008 North American Emergency Response Guidebook Number: 127 or 128.

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SECTION 15. REGULATORY INFORMATION

Labeling

Risk phrases:

R12 Extremely flammable

R20 Harmful by inhalation

R22 Harmful if swallowed

Safety phrases

S2: Keep out of reach of children

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe, vapor or spray

SARA Reporting Requirements: This product contains the following chemicals subject to Sections 302 and 313 of Title III of the Superfund Amendments and Reauthorization Act:

U.S. CERCLA Reportable Quantity:

Tetrahydrofuran = 1000 lbs

Cyclohexanone = 5000 lbs

Methyl Ethyl Ketone = 5000 lbs

Acetone = 500 lbs.

California Proposition 65: This product may contain trace levels of chemicals known to the State of California to cause cancer. Exposure to these chemicals above the State of California 'No Significant Risk Level' is unlikely under normal use conditions.

TSCA Inventory: The components of this product are listed on the TSCA Inventory.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Acetone meets the Canadian WHMIS criteria for classes:

B2: Flammable and combustible material: Flammable liquid

D2A/B- Poisonous and Infectious material-Other Effects: Toxic

FOREIGN INVENTORY STATUS:

Europe: The components of this product are on the EINECS inventory or are exempt from inventory requirements.

Japan: No Data

Canada: Notified Listed DSL

Australia: Notified

SECTION 16. OTHER INFORMATION

NFPA Ratings:

NFPA Classification: Health - 2, Flammability - 3, Reactivity - 1

HMISIII Classification: Health - 2, Flammability - 3, Physical Hazard - 1

Label Hazard Warning: Danger: Extremely Flammable. Avoid breathing vapors. Avoid eye contact and prolonged skin contact. Harmful or fatal if swallowed. Keep out of reach of children. Use only with adequate ventilation. Avoid breathing fumes vapors or mists. Do not take internally. May be harmful or fatal if swallowed.

Label First Aid: For eye contact, rinse the eyes with running water for 15 minutes, lifting the eyelids occasionally to flush the area behind the lid. If irritation persists, get medical attention. For skin contact, wash the affected area with soap and water, then rinse thoroughly with water. Wash contaminated clothing before re-use. For inhalation, remove affected individual to fresh air. If the victim is not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Get medical attention. If swallowed, do not induce vomiting. Dilute by drinking 3-4 glasses of water of milk, and call the nearest poison control center or the National Poison Control Hotline 1-800-222-1222 for advice.

Product Use: Cleaner/Primer for PVC pipe.

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SECTION 17. ADDITIONAL INFORMATION

This information is provided in accordance with the requirements of the UK Health and Safety at Work Act 1974, and specifically in order to assist users of the product to make their 'assessment of health risks' as required by the UK Control of Substances Hazardous to Health Regulation 1988 (COSHH assessments). Provision of this information does not preclude users from seeking advice from other sources as indicated in the COSHH guides. This information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contra-indications and precautions for the treatment of patients.

SECTION 18. MANUFACTURED FOR

Diversitech
6650 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
Phone 1+678.542.3600
EMERGENCY Phone No.: 1 800-255-3924 Chem-Tel (Chemical Emergencies Only)

SECTION 19. REFERENCE NUMBER AND DATE OF ISSUE

COSHH Safety Data Sheet: PWU Issued: 07/20/2009

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.