



GHS SAFETY DATA SHEET

WELD-ON® 778™ Low VOC Pipe Cement for ABS Plastic Pipe

Date Revised: APR 2020
Supersedes: MAR 2020

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WELD-ON® 778™ Low VOC Pipe Cement for ABS Plastic Pipe
PRODUCT USE: Low VOC Solvent Cement for ABS Plastic Pipe
RESTRICTIONS ON USE: No relevant information available
SUPPLIER:

MANUFACTURER: IPS Corporation
17109 South Main Street, Gardena, CA 90248-3127
P.O. Box 379, Gardena, CA 90247-0379
Tel. 1-310-898-3300 Email: EHSinfo@ipscorp.com

EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

		Health		Environmental	
Acute Toxicity:	Category 4	Specific Target Organ Toxicity	Category 2	Acute Toxicity:	None Known
Skin Irritation:	Category 3	Single Exposure - Central nervous system		Chronic Toxicity:	None Known
Serious Eye Irritation:	Category 2a	Specific Target Organ Toxicity	Category 2	Flammable Liquid	Category 2
		Repeated Exposure - Kidney, Liver			

GHS LABEL:



Signal Word: DANGER

Hazard Statements		Precautionary Statements	
H225: Highly flammable liquid and vapor		P201: Obtain special instructions before use	
H302: Harmful if swallowed		P202: Do not handle until all safety precautions have been read and understood.	
H315: Causes skin irritation		P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking	
H319: Causes serious eye irritation		P233 + P403: Keep container tightly closed. Store in a well-ventilated place.	
H332: Harmful if inhaled		P240 + P241: Ground/bond container and receiving equipment. Use explosion-proof equipment.	
H335: May cause respiratory irritation		P242 + P243: Use only non-sparking tools. Take precautionary measures against static discharge.	
H336: May cause drowsiness or dizziness		P261: Avoid breathing dust/fume/gas/mist/vapors/spray	
H373: May cause damage to organs through prolonged or repeated exposure		P501: Dispose of contents/ container to an approved waste disposal plant.	
RESPONSE			
P301+310: IF SWALLOWED: Call a POISON CENTER and get Medical Attention		P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P331: DO NOT induce vomiting.		P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.	
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		Remove contact lenses, if present and easy to do. Continue rinsing.	
		P308+313: IF exposed or concerned: Get medical advice/attention.	

Physical Hazards Not Otherwise Classified: Vapors may form explosive mixture with air.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS	EINECS	REACH	CONCENTRATION
			Registration Number	% by Weight
Methyl ethyl ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	40 - 55
(ABS) Acrylonitrile/Butadiene/Styrene Copolymer	9003-56-9	618-371-8	Not registered	30 - 40
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	10 - 20

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.
* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).
Indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion: Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide or any class B extinguishing agent
Unsuitable Extinguishing Media: Water spray or stream.
Exposure Hazards: Inhalation and dermal contact
Combustion Products: Oxides of carbon and smoke
Unusual Fire and Explosion Hazards: Vapors may ignite explosively. Vapors may spread long distances. Prevent build-up of vapors. Extinguish all pilot lights and turn off heaters, non-explosion-proof electrical equipment and all other sources of ignition. Keep away from and do not store or use near heat, sparks or flames caused by such sources as electricity, static discharge, welding, grinding or flame cutting operation. Ground all equipment. Use spark-proof tools and conductive shoes to avoid sparking hazards.
Protection for Firefighters: Evacuate area. Fight fire from a safe distance or a protected location. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Before entry, especially into confined areas, use an appropriate monitor to check for flammable or explosive atmosphere. Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep away from heat, sparks and open flame. Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8).
Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up: Contain spill using noncombustible material such as vermiculite, earth or sand. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.
Materials not to be used for clean up: Aluminum or plastic containers. Do not use absorbents.

SECTION 7 - HANDLING AND STORAGE

Handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Electrically bond and ground equipment. Ground clips must contact bare metal. Use non-sparking tools. Wash hands thoroughly after handling this material. No smoking. Avoid breathing in this product. Do not get in eyes, on skin or on clothing. Do not swallow. Avoid exposure during pregnancy and while nursing. Only use where there is adequate ventilation. Avoid generating vapors or mists.
Storage: Keep storage area separate from populated work areas. Store in a cool, dry, well ventilated area, out of direct sunlight and away from incompatible materials and any source of ignition. Ventilation fans and electrical equipment should be non-sparking. Follow all precautionary information on container label, product bulletins and solvent cementing literature.
ATTENTION: Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut puncture or weld near this container. Follow label warning until container is thoroughly cleaned or destroyed.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH	ACGIH	OSHA	OSHA	Ca/OSHA	Ca/OSHA	Ca/OSHA	
		8 hour TLV	15 min STEL	8 hour PEL	15 min STEL	PEL-Ceiling	8 hour PEL	Ceiling	15 min STEL
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

Engineering Controls: Use local exhaust as needed.
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.
Personal Protective Equipment (PPE):
Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.
Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.
Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black, medium syrupy liquid	Odor Threshold: 1 ppm (Acetone)
Odor: Ketone	Evaporation Rate: >1.0 (BUAC = 1)
pH: No Data Applicable	Flammability: Category 2
Melting/Freezing Point: -95°C (-139°F) Based on first melting component: Acetone	Flammability Limits: LEL: 1.4% based on MEK UEL: 12.8% based on Acetone
Boiling Point: 56°C (133°F) Based on first boiling component: Acetone	Vapor Pressure: 190 mm Hg @ 20°C (68°F): Acetone
Flash Point: -20°C (-4°F) T.C.C. based on Acetone	Vapor Density: > 2.0 (Air = 1)
Specific Gravity: 0.889 @23°C (73°F)	Partition Coefficient n-octanol/water: No Data Available
Solubility: Solvent portion soluble in water.	Decomposition Temperature: No Data Applicable
Auto-ignition Temperature: 404°C (515°F): MEK	
VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 325 g/l.	

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Heating may cause a fire.
Chemical Stability: Normally Stable.
Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.
Conditions to avoid: High temperatures, Open flames, sparks, static discharge, heat and other ignition sources.
Incompatible Materials: Oxidizing agents (e.g. peroxides).

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation:	Excessive exposure to vapors or spray mists can result in headache, dizziness, incoordination and loss of consciousness. Irritation of the eyes, nose, throat and lungs can also occur when exposed to high vapor concentrations. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent nervous system damage.
Eye Contact:	Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
Skin Contact:	Liquid contact may remove natural skin oils resulting in skin irritation. May cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.
Ingestion:	Swallowing can cause nausea, vomiting, diarrhea and loss of consciousness.

Chronic (long-term) effects: (MEK) Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.
Health Hazards Not Otherwise Classified: Repeated exposure may cause skin dryness or cracking.

Toxicity:	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Methyl Ethyl Ketone (MEK)	2737 mg/kg (rat)	6480 mg/kg (rabbit)	8 hrs. 23,500 mg/m3 (rat)
Acetone	5800 mg/kg (rat)	20000 mg/kg (rabbit)	50,100 mg/m3 (rat)

Acute Toxicity	Category 4	Acute (Oral) Toxicity: None	Acute (Dermal) Toxicity: None	Acute (Inhalation) Toxicity: None
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Specific Target Exposure Toxicity-Single Exposure	Category	Route of Exposure	Affected Organs
Methyl Ethyl Ketone	3	Inhalation	Central nervous system
Acetone	3	Inhalation	Central nervous system

Specific Target Exposure Toxicity-Repeated Exposure
Methyl Ethyl Ketone No Data Available
Acetone No Data Available

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

Carcinogenicity: While Acrylonitrile (CAS 107-13-1), Butadiene (CAS 106-99-0), and Styrene (CAS 100-42-5); components in ABS, are listed separately on California's Proposition 65 list of chemicals that it has determined cause cancer and/or reproductive effects, the compound Acrylonitrile/Butadiene/Styrene Copolymer (ABS) (CAS 9003-56-9) is not listed.

Aspiration Hazard: No data available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	LC50	LC50	EC50
Acute Aquatic Toxicity:	Pimephales promelas (fathead minnow); 96-hour	Daphnia magna (water flea); 48-hour	Pseudokirchneriella subcapitata (microalgae) Growth rate inhibitor
Methyl Ethyl Ketone (MEK)	> 100 mg/L	> 100 mg/L	2,029 mg/l - 96 hour
Acetone	No Data Available	7630	No Data Available

Mobility in Soil: If released into the environment, this product can move rapidly through the soil.
Degradability: Does not degrade rapidly based on quantitative tests.
Bioaccumulation: This product and its degradation products are not known to bioaccumulate.
Results of PBT and vPVB assessment: PBT: Not applicable. vPVB: Not applicable
Other adverse effects: No relevant information available.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, and Local regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives	EXCEPTION for Ground Shipping DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as ORM-D
Hazard Class: 3	
Secondary Risk: None	TDG INFORMATION TDG CLASS: FLAMMABLE LIQUID 3 SHIPPING NAME: ADHESIVES UN NUMBER/PACKING GROUP: UN 1133, PG II
Identification Number: UN 1133	
Packing Group: PG II	
Label Required: Class 3 Flammable Liquid	
Marine Pollutant: NO	

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Symbols: F, Xi	USA Toxic Substances Control Act (TSCA) Section 8(b) All ingredients are listed on the TSCA Inventory.
Special Precautions: Not applicable	
Compliance Statement: This SDS was prepared to be in accordance with: US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012) Canadian Workplace Hazardous Materials Information System (WHMIS) 2015 European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.	

SECTION 16 - OTHER INFORMATION

Specification Information:	
Department issuing data sheet: IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
E-mail address: EHSinfo@ipscorp.com	
Training necessary: Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue: 4/13/2020 / Updated GHS Standard Format	
Intended Use of Product: Solvent Cement for ABS Plastic Pipe	

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.