



# GHS SAFETY DATA SHEET

Weld-On® 600™ Low VOC Cement for Contact Adhesive

Date Revised: DEC 2013  
Supersedes: NOV 2012

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Weld-On® 600™ Low VOC Cement for Contact Adhesive

**PRODUCT USE:** Solvent based Contact Adhesive for plastic drainage and HVAC systems

**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

**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:**

<b>Health</b> Acute Toxicity: Category 4 Skin Irritation: Category 2 Skin Sensitization: NO Eye: Category 2 Aspiration Toxicity: Category 1	<b>Environmental</b> Acute Toxicity: Category 1 Chronic Toxicity: Category 1	<b>Physical</b> Flammable Liquid Category 2
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**GHS LABEL:**



**Signal Word:** Danger

**WHMIS CLASSIFICATION:** CLASS B, DIVISION 2  
CLASS D, DIVISION 2A  
CLASS D, DIVISION 1B

### Hazard Statements

H225: Highly flammable liquid and vapor  
H304: May be fatal if swallowed and enters airways  
H315: Causes skin irritation  
H336: May cause drowsiness or dizziness  
H340: May cause genetic defects  
H350: May cause cancer  
H361: Suspected of damaging fertility or the unborn child  
H373: May cause damage to organs through prolonged or repeated exposure  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects

### Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P337+P313: Get medical advice/attention  
P403+P233: Store in a well ventilated place. Keep container tightly closed  
P501: Dispose of contents/container in accordance with local regulation

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION	
			Pre-registration Number	% by Weight	
Methylene Chloride * # (dichloromethane)	75-09-2	200-838-9	17-2119926076-39-0000	20 - 25	
Solvent Naphtha	64742-89-8	265-192-2	Under development	20 - 25	(Component of Hexasol Mixture)
n-hexane *	110-54-3	203-777-6	Under development	20 - 25	(Component of Hexasol Mixture)
Cyclohexane *	110-82-7	203-806-2	Under development	5 - 10	(Component of Hexasol Mixture)
Heptane	142-82-5	205-563-8	Under development	3 - 7	(Component of Hexasol Mixture)

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 that 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. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

## SECTION 5 - FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.  
**Unsuitable Extinguishing Media:** Water spray or stream.  
**Exposure Hazards:** Inhalation and dermal contact  
**Combustion Products:** Oxides of carbon, hydrocarbons, hydrogen chloride and smoke

	HMIS	NFPA	
Health	3	3	1-Slight
Flammability	3	3	2-Moderate
Reactivity	0	0	3-Serious
PPE	H		4-Severe

**Protection for Firefighters:** Self-contained breathing apparatus or full-face positive pressure airline masks.

## 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:** Clean up with sand or other inert absorbent material. Transfer to a closable vessel.  
**Materials not to be used for clean up:** Plastic containers

## SECTION 7 - HANDLING AND STORAGE

**Handling:** Avoid breathing of vapor, avoid contact with eyes, skin and clothing.  
Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.  
Do not eat, drink or smoke while handling.  
**Storage:** Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.  
Keep away from ignition sources and incompatible materials such as: caustics, amines, acids, and strong oxidizers.  
Follow all precautionary information on container label, product bulletins and solvent cementing literature.

## SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL
	Methylene Chloride (dichloromethane)	50 ppm	None	25 ppm skin
	Solvent Naphtha	300 pp	None	300 ppm
	n-hexane*	50 ppm	None	500 ppm
	Cyclohexane*	100 ppm	None	300 ppm
	Heptane	400 ppm	500 ppm	500 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. PVA coated rubber gloves should be used for frequent immersion.  
Use of latex or nitrile gloves or solvent-resistant barrier cream should provide adequate protection for 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.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, regular syrupy liquid	<b>Odor Threshold:</b>	250 ppm based on MeCl
<b>Odor:</b>	Naphtha	<b>Boiling Range:</b>	64°C (147°F) to 89°C (190°F) based on Hexasol Mixture
<b>pH:</b>	Not Applicable	<b>Evaporation Rate:</b>	8.8 (BUAC = 1) based on Hexasol Mix Category 2
<b>Melting/Freezing Point:</b>	Not available	<b>Flammability:</b>	<b>LEL:</b> 1% based on Hexasol Mixture <b>UEL:</b> 7% based on Hexasol Mixture
<b>Boiling Point:</b>	64°C (147°F) based on Hexasol Mixture	<b>Flammability Limits:</b>	<b>Vapor Pressure:</b> 138 mm Hg @ 68°C (154°F) based on Hexasol Mixture
<b>Flash Point:</b>	-18°C (0°F) TCC based on Hexasol Mixture	<b>Vapor Density:</b>	3.2 (Air = 1)
<b>Specific Gravity:</b>	0.890 @23°C ( 73°F)		
<b>Solubility:</b>	Not available		
<b>Partition Coefficient n-octanol/water:</b>	Not Available		
<b>Auto-ignition Temperature:</b>	232°C (450°F) based on Hexasol		
<b>Decomposition Temperature:</b>	Not available		
<b>VOC Content:</b>	≤ 460 g/L		

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Hazardous decomposition products:</b>	None in normal use. When forced to burn, this product gives off oxides of carbon, hydrocarbons and smoke.
<b>Conditions to avoid:</b>	Keep away from heat, sparks, open flame and other ignition sources.
<b>Incompatible Materials:</b>	Oxidizers, strong acids and bases, amines

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Likely Routes of Exposure: Inhalation, Ingestion, Eye and Skin Contact

**Acute symptoms and effects:**

<b>Inhalation:</b>	Severe overexposure may result in drowsiness, nausea, dizziness, or headache.
<b>Eye Contact:</b>	May cause mild eye irritation
<b>Skin Contact:</b>	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
<b>Ingestion:</b>	May cause nausea, vomiting, diarrhea and mental sluggishness.

**Chronic (long-term) effects:** IARC Classification 2B (Methylene Chloride), 1B (Solvent Naphtha)  
GHS Classification Carc2 (Methylene Chloride), Carc1B (Solvent Naphtha)

	LD50	LC50	STOT
Methylene Chloride (dichloromethane)	Oral: 1500- 2500 mg/kg (rat) , Dermal: Not Determined	Inhalation 7 hrs. >10000 PPM (rat)	SE3
Solvent Naphtha	Oral: 8000 mg/kg (rat), Dermal 4000mg/kg (rabbit)	Inhalation 4 hrs. 3400 mg/m <sup>3</sup> (rat)	
n-hexane	Oral: 25,000 mg/kg (rat), Dermal: 1300 mg/kg (rabbit)	Inhalation 4 hrs. 48,000 mg/m <sup>3</sup> (rat)	SE3 / RE2
Cyclohexane	Oral: 29,820 mg/kg (rat), Dermal: 2000 mg/kg (rabbit)	Inhalation 4 hrs. 103,000 PPM (rat)	SE3
Heptane	Oral: 15,000 mg/kg (rat), Dermal: 2000 mg/kg (rabbit)	Inhalation 50,100 mg/m <sup>3</sup> (rat)	SE3

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Category 2	Not Established	Category 1B	Not Established	Not Established	Not Established

**SECTION 12 - ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Category 1
<b>Mobility:</b>	In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 460 g/l.
<b>Degradability:</b>	Not Available
<b>Bioaccumulation:</b>	Minimal to none.

**SECTION 13 - WASTE DISPOSAL CONSIDERATIONS**

Follow local and national regulations. Consult disposal expert.

**SECTION 14 - TRANSPORT INFORMATION**

<b>Proper Shipping Name:</b>	Adhesives
<b>Hazard Class:</b>	3
<b>Secondary Risk:</b>	6.1
<b>Identification Number:</b>	UN 1133
<b>Packing Group:</b>	PG II
<b>Label Required:</b>	Class 3 Flammable Liquid
<b>Marine Pollutant:</b>	NO

EXCEPTION for Ground Shipping
<b>DOT Limited Quantity:</b> Up to 5L per inner packaging, 30 kg gross weight per package.
<b>Consumer Commodity:</b> Depending on packaging, these quantities may qualify under DOT as "ORM-D".

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
UN NUMBER/PACKING GROUP:	UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION**

<b>Precautionary Label Information:</b>	Highly Flammable, Irritant, Carc. Cat. 2	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
<b>Symbols:</b>	F, Xn, N	
<b>Risk Phrases:</b>	R11: Highly flammable. R38: Irritating to skin. R45: May cause cancer. R46: May cause heritable genetic damage. R62: Possible risk of impaired fertility.	R65: Harmful: may cause lung damage if swallowed. R67: Vapors may cause drowsiness and dizziness. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Safety Phrases:</b>	S2: Keep out of the reach of children. S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition. S25: Avoid contact with eyes. S29: Do not empty into drains. S33: Take precautionary measures against static discharges.	S36/37: Wear suitable protective clothing and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53: Avoid exposure - obtain special instructions before use. S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/safety data sheet. S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**SECTION 16 - OTHER INFORMATION**

<b>Specification Information:</b>		
<b>Department issuing data sheet:</b>	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
<b>E-mail address:</b>	<EHSinfo@ipscorp.com>	
<b>Training necessary:</b>	Yes, training in practices and procedures contained in product literature.	
<b>Reissue date / reason for reissue:</b>	12/4/2013 / Updated GHS Standard Format	
<b>Intended Use of Product:</b>	Solvent based Contact Adhesive for plastic drainage and HVAC systems	

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.