



# GHS SAFETY DATA SHEET

## WELD-ON® SS515-A™ Structural Adhesive

Date Revised: **DEC 2009**Supersedes: **FEB 2008**

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** WELD-ON® SS515-A™ Structural Adhesive**PRODUCT USE:** Component "A" of a 2-Component Adhesive for Thermoset Composites, Plastics and other substrates**SUPPLIER:****MANUFACTURER:**IPS Corporation  
600 Ellis Road, Durham, NC 27703 - USA  
P.O. Box 12729, Research Triangle Park, NC 27709 - USA  
Tel. 1-919-598-2400**EMERGENCY:** Transportation: Tel. 800.424.9300, 703.527.3887 CHEMTREC (International)**Medical:** Tel. 800.451.8346, 760.602.8703 3E Company (International)

### SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

Health		Environmental		Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	Category III	Flammable Liquid:	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	Category IV		
Skin Sensitization:	YES				
Eye:	Category 2B				

**GHS LABEL:**

OR

**WHMIS CLASSIFICATION:** CLASS B, DIVISION 2  
CONTROLLED PRODUCT CLASS D, DIVISION 2BHazard Statements

Highly flammable liquid and vapor May cause irritation/allergic skin reaction

Precautionary Statements

Do not breathe vapor Keep container closed Use in well-ventilated area

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Methyl Methacrylate Monomer (MMA),* Stabilized	80-62-6	201-297-1	05-2116297731-37-0000	55 - 65
Methacrylic Acid (MAA)	79-41-4	201-204-4	05-2116297727-26-0000	< 10

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).

### 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

<b>Suitable Extinguishing Media:</b>	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.	<b>HMIS</b>	<b>NFPA</b>	0-Minimal
<b>Unsuitable Extinguishing Media:</b>	Water spray or stream.	<b>Health</b>	2	2
<b>Exposure Hazards:</b>	Inhalation and dermal contact	<b>Flammability</b>	3	3
<b>Combustion Products:</b>	Oxides of carbon, oxides of nitrogen, hydrocarbons, acrid smoke and gases.	<b>Reactivity</b>	2	2
<b>Protection for Firefighters:</b>	Self-contained breathing apparatus or full-face positive pressure air-supply masks.			4-Severe

### 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 with sand or other inert adsorbent or absorbent material. Use non-sparking tools.  
Transfer to a closable vessel (Metal or polyethylene [PE])

### 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 and away from direct sunlight. Keep container tightly closed when not in use.  
Keep away from ignition sources and incompatible materials. Follow all precautionary information on container label and product bulletins.

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

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
	Methyl Methacrylate Mon.	50 ppm	100 ppm	100 ppm	N/E
	Methacrylic Acid	20 ppm skin	N/E	20 ppm skin	N/E

- 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 splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields.
- 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:** Use in a well-ventilated room. 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>	Off-white, viscous liquid	<b>Odor Threshold:</b>	0.75 ppm: MMA
<b>Odor:</b>	Acrid odor	<b>Evaporation Rate:</b>	> 1.0 (BUAC = 1)
<b>pH:</b>	Not Applicable	<b>Flammability:</b>	Category 2
<b>Boiling Point:</b>	100.5°C (213°F) Based on first boiling component: MMA	<b>Flammability Limits:</b>	<b>LEL:</b> 1.6% based on MMA <b>UEL:</b> 12.5% based on MMA
<b>Flash Point:</b>	11.5°C (52.7°F) T.C.C. based on MMA	<b>Vapor Pressure:</b>	28 mm Hg @ 20°C (68°F): MMA
<b>Specific Gravity:</b>	1.002 @23°C (73°F)	<b>Vapor Density:</b>	> 3.0 (Air = 1)
<b>Solubility:</b>	Slight in Water (MMA, MAA)	<b>VOC Content :</b>	≤ 50 g/l mixed
<b>Auto-ignition Temperature:</b>	421°C (789.8°F): MMA		
<b>Decomposition Temperature:</b>	Not Applicable		

## SECTION 10 - STABILITY AND REACTIVITY

<b>Stability:</b>	Stable, unless heated
<b>Hazardous decomposition products:</b>	None in normal use. Oxides of carbon, oxides of nitrogen, hydrocarbons, acrid smoke and gases upon combustion.
<b>Conditions to avoid:</b>	Keep away from direct sunlight, heat, sparks, open flame and other ignition sources.
<b>Incompatible Materials:</b>	Reducing and oxidizing agents and metal contaminants

## SECTION 11 - TOXICOLOGICAL INFORMATION

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

### Acute symptoms and effects:

<b>Inhalation:</b>	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
<b>Eye Contact:</b>	Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
<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:** None known to humans

<b>Toxicity:</b>	<b>LD50</b>	<b>LC50</b>
Methyl Methacrylate Monomer (MMA)	Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)	Inhalation: 3 hrs. 7093 PPM (rat)
Methacrylic Acid	Oral: 1600 mg/kg (rat), Dermal: 500 mg/kg (rabbit)	Inhalation: 6.7 mg/l (rat)

<b>Reproductive Effects</b>	<b>Teratogenicity</b>	<b>Mutagenicity</b>	<b>Embryotoxicity</b>	<b>Sensitization to Product</b>	<b>Synergistic Products</b>
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	None known
<b>Mobility:</b>	In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 50 g/l
<b>Degradability:</b>	Not Established
<b>Bioaccumulation:</b>	Not Established

## SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult local disposal expert.

## SECTION 14 - TRANSPORT INFORMATION

<b>Proper Shipping Name:</b>	Adhesives
<b>Hazard Class:</b>	3
<b>Secondary Risk</b>	None
<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

**DOT Limited Quantity:** Up to 5L per inner packaging, 30 kg gross weight per package.

**Consumer Commodity:** Depending on packaging, these quantities may quantities under DOT as "ORM-D" .

### TDG INFORMATION

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

## SECTION 15 - REGULATORY INFORMATION

<b>Precautionary Label Information:</b>	Highly Flammable, Harmful	<b>Ingredient Listings:</b>	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
<b>Symbols:</b>	F, Xn		
<b>Risk Phrases:</b>	R-11 Highly Flammable R-20 Harmful by inhalation R-21 Harmful if contact with skin R-22 Harmful if swallowed	R-36/37/38 Irritating to eyes, respiratory system and skin R-43 May cause sensitization by skin contact.	
<b>Safety Phrases:</b>	S-2 Keep out of reach of children S-7 Keep container tightly closed when not in use S-9 Keep container in a well-ventilated place S-15/16 Keep away from heat and sources of ignition. No smoking S-23 Do not breathe vapor	S-24/25 Avoid contact with skin and eyes. S-29 Do not empty into drains S-37 Wear suitable gloves S-51 Use only in well ventilated areas	

## 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>	12/08/09 Modified GHS Standard Format	
<b>Intended Use of Product:</b>	Structural adhesive bonding	

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.