

IPS

WELD-ON

**MATERIAL SAFETY DATA SHEET**

Date Revised: JAN 2008

Supersedes: AUG 2006

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. IPS Corporation urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on this sheet.

**SECTION I****MANUFACTURER'S NAME**

IPS Corporation  
ADDRESS  
17109 S. Main St., P.O. Box 379, Gardena, CA. 90248 U.S.A.

**Transportation Emergencies:**

CHEMTREC: (800) 424-9300

**Medical Emergencies:**

3 E COMPANY (24 Hour No.) (800) 451-8346  
Business: (310) 898-3300

**CHEMICAL NAME and FAMILY**

Mixture of CPVC Resin and Organic Solvents

**TRADE NAME:**

SPEARS FS - 5 Cement for CPVC Plastic Pipe

**SECTION II - HAZARDOUS INGREDIENTS**

None of the ingredients below are listed as carcinogens by IARC, NTP, OSHA or ACGIH	CAS#	APPROX % BY WEIGHT	ACGIH TLV	ACGIH STEL	OSHA TLV	OSHA STEL	LD50	LC50
Chlorinated Polyvinyl Chloride Resin (CPVC)	68648-82-8	10 - 20	N. AP.		N. AP.		N. AP.	N. AP.
Tetrahydrofuran (THF)	109-99-9	39 - 55	50 PPM# Skin	100 PPM	200 PPM	250 PPM	Oral: 2880 mg/kg (rat)	Inhalation 3 hrs. 21,000 PPM (rat)
Methyl Ethyl Ketone (MEK)	78-93-3	1 - 8*	200 PPM	300 PPM	200 PPM	300 PPM	Oral: 3.98 g/kg (rat)	Inhalation 4 hrs. 4,000 PPM (rat)
Cyclohexanone	108-94-1	2 - 18	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat)	Inhalation LCLO, 4 hrs: 2000 PPM rat
Acetone	67-64-1	7 - 23	500 PPM	750 PPM	1000 PPM		Oral: 9.75 g/kg (rat)	Inhalation LCLO 4 hrs: 16,000 PPM (rat)

All of the constituents of IPS adhesive products are listed on the TSCA inventory of chemical substances maintained by the US EPA and/or the Canadian Domestic Substance List (DSL), or are exempt from such listings.

# Invista and BASF mfg's Acceptable Exposure Limit (AEL) guidelines for 8 hour and 12 hour TWA, Invista/BASF recommended STEL for 15 minute TWA: 75 PPM.

**TDG INFORMATION**

TDG CLASS: FLAMMABLE LIQUID 3  
SHIPPING NAME: ADHESIVE (TETRAHYDROFURAN)  
UN NUMBER: 1133, PG II

**SPECIAL HAZARD DESIGNATIONS**

	HMIS	NFPA	HAZARD RATING
HEALTH:	2	2	0 - MINIMAL
FLAMMABILITY:	3	3	1 - SLIGHT
REACTIVITY:	0	1	2 - MODERATE
PROTECTIVE EQUIPMENT:	B - H		3 - SERIOUS 4 - SEVERE

**WHMIS CLASSIFICATION: CONTROLLED PRODUCT**

CLASS B, DIVISION 2  
CLASS D, DIVISION 2

B = Eye, Hand/Skin (for normal solvent-welding activities)  
H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/immersion risks)

**SECTION III - PHYSICAL DATA**

<b>APPEARANCE</b> Red, medium syrupy liquid	<b>ODOR</b> Ethereal (Threshold = 2-50 PPM)	<b>BOILING POINT (°F/°C)</b> 133°F (57°C)	<b>FREEZING POINT</b> -139°F (-95°C)
<b>SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)</b> Typical 1.0 ± 0.040	<b>VAPOR PRESSURE (mm Hg.)</b> 190 mm Hg. based on first boiling component, Acetone @ 68°F (20°C)	Based on Acetone	
<b>VAPOR DENSITY (Air = 1)</b> 2.49	<b>EVAPORATION RATE (BUAC = 1)</b> > 1.0	<b>PERCENT VOLATILE BY VOLUME (%)</b> Approx: 70 - 80 %	
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION</b> N. AV.	<b>PH INFORMATION</b> N. AP.	<b>SOLUBILITY IN WATER</b> Solvent portion completely soluble in water. Resin portion separates out.	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

<b>FLASH POINT</b> -6°F (-21°C) T.C.C. Based on Acetone 609.8°F (321°C), THF	<b>AUTO IGNITION TEMP.</b>	<b>FLAMMABLE LIMITS (PERCENT BY VOLUME)</b>	<b>LEL</b> 2.0	<b>UEL</b> 11.8
<b>FIRE EXTINGUISHING MEDIA</b> Ansul "Purple K" potassium bicarbonate dry chemical, carbon dioxide, National Aer-O-Foam universal alcohol resistant foam, water spray.				

**SPECIAL FIRE FIGHTING PROCEDURES**

Evacuate enclosed areas. Stay upwind. Close quarters or confined spaces require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** SENSITIVITY TO MECHANICAL IMPACT: N. AP SENSITIVITY TO STATIC DISCHARGE: 0.25 Millijoules

Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source(s) of ignition at or near ground or lower level(s) and flash back.