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SECTION I - PRODUCT INFORMATION

MANUFACTURER and SUPPLIER'S NAME IPS Corporation ADDRESS 17109 S. Main St., P.O. Box 379, Gardena, CA. 90248 U.S.A. (310) 898-3300		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: WELD-ON 2714 Low VOC Cement for CPVC Plastic Pipe	

SECTION II - HAZARDOUS INGREDIENTS, EXPOSURE LIMITS, TRANSPORT & WHMIS DATA

None of the ingredients below are listed as carcinogens by IARC, NTP, OSHA or ACGIH	CAS#	APPROX % BY WEIGHT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	OSHA 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	50 - 60	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	2 - 9*	200 PPM	300 PPM	200 PPM	300 PPM	Oral: 3.98 g/kg (rat) Dermal: 8-10 mg/kg (rabbit)	Inhalation 4 hrs. 4,000 PPM (rat)
Cyclohexanone	108-94-1	2 - 10	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat) Dermal: 1.0 g/kg (rabbit)	Inhalation LCLO, 4 hrs: 2000 PPM (rat)
Acetone	67-64-1	5 - 15	500 PPM	750 PPM	750 PPM	1000 PPM	Oral: 9.75 g/kg (rat) Dermal: 20 g/kg (rabbit)	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.

DOT, IATA, IMO/IMDG SHIPPING INFORMATION			SPECIAL HAZARD DESIGNATIONS		
Proper Shipping Name: Adhesives	EXCEPTION: Case quantities of cement in containers of less than one liter may be shipped as LIMITED QUANTITY or CONSUMER COMMODITY, ORM-D		HMIS	NFPA	HAZARD RATING
Hazard Class: 3			HEALTH: 2	2	0 - MINIMAL
Identification Number: UN 1133			FLAMMABILITY: 3	3	1 - SLIGHT
Packing Group: II			REACTIVITY: 0	1	2 - MODERATE
Label Required: Flammable Liquid			PROTECTIVE		3 - SERIOUS
TDG INFORMATION			EQUIPMENT: B - H		4 - SEVERE
TDG CLASS: FLAMMABLE LIQUID 3			B = Eye, Hand/Skin (for normal solvent-welding activities) H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/immersion risks)		
SHIPPING NAME: ADHESIVES (TETRAHYDROFURAN)					
UN NUMBER: 1133, PG II					
WHMIS CLASSIFICATION: CONTROLLED PRODUCT					
CLASS B, DIVISION 2					
CLASS D, DIVISION 2B					

SECTION III - PHYSICAL DATA

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

VOC STATEMENT Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 490 grams/liter. After drying and curing there are negligible or no emissions.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT -6°F (-21°C) T.C.C. Based on Acetone 609.8°F (321°C), THF	AUTO IGNITION TEMP.	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL 2.0	UEL 11.8
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FIRE EXTINGUISHING MEDIA
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. Refer to Section VI for hazardous decomposition products.

Hazardous Combustion Products When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.

SECTION V - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.
	STABLE	X	

INCOMPATIBILITY

(MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

HAZARDOUS DECOMPOSITION PRODUCTS

When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.
	WILL NOT OCCUR	X	

SECTION VI - HEALTH HAZARD DATA & TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES

OF ENTRY: Inhalation Skin Contact Eye Contact Ingestion

TOXIC EXPOSURE VALUE Refer to table in Section II for Lethal Dose and Lethal Concentration exposure values

EFFECT OF OVEREXPOSURE

ACUTE:

Inhalation:

Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Skin Contact:

Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Skin Absorption:

Prolonged or widespread exposure may result in the absorption of harmful amounts of material.

Eye Contact:

Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Vapors slightly uncomfortable.

Ingestion:

Moderately toxic. May cause nausea, vomiting, diarrhea. May cause mental sluggishness.

CHRONIC:

Symptoms of respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000 ppm THF for 90 days.

Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposures.

REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
N. AP.	N. AP.	N. AP.	N. AP.	N. AP.	N. AV.

SECTION VII - PREVENTIVE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

WASTE DISPOSAL METHOD

Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing. CA Hazardous Waste Code: 214.

RESPIRATORY PROTECTION (Specify type)

Atmospheric exposure levels in employees' breathing zone should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure air line or self-contained breathing apparatus.

VENTILATION

Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

PROTECTIVE GLOVES PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile surgical gloves or solvent resistant barrier creme should provide adequate protection when normal solvent-cement welding practices and procedures are used for making plastic welded pipe joints.

EYE PROTECTION Splashproof chemical goggles, face shield, safety glasses with brow guards and side shields, etc. as appropriate for exposure.

OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES

Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in the shade between 40°F - 90°F (5°C - 32.5°C). Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.

OTHER PRECAUTIONS

Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All material handling equipment should be electrically grounded.

SECTION VIII - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

Inhalation:

If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

Eye Contact:

Flush eyes with plenty of water for 15 minutes and call a physician.

Skin Contact:

Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion:

Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.

SECTION IX - SDS PREPARATION INFORMATION

Prepared by: IPS Safety, Health & Environmental Affairs Department Telephone number: (310) 898-3300 e-mail address: <richard.winn@ipscorp.com>

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