IPS

MATERIAL SAFETY DATA SHEET

WELD-ON Supersedes: MAR 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

Transportation Emergencies:

CHEMTREC: (800) 424-9300

Medical Emergencies:

3 E COMPANY (24 Hour No.) (800) 451-8346

Date Revised: APR 2007

Business: (310) 898-3300

CHEMICAL NAME and FAMILY

Solvent Cement for PVC Plastic Pipe

Mixture of PVC Resin and Organic Solvents

TRADE NAME:

WELD-ON TURF 'N AG 2737 (formerly Plumb 'R Turf 2737)

FORMULA: Proprietary

SECTION II HAZARDOUS INGREDIENTS

None of the ingredients below are listed as							DUPONT	
carcinogens by IARC, NTP or OSHA	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	(A) AEL	(B) STEL
Polyvinyl Chloride Resin (PVC)	NON/HAZ		N/A		N/A			
Tetrahydrofuran (THF)**	109-99-9	48 - 60	50 PPM	100 PPM	200 PPM	250 PPM	50 PPM	75 PPM
Methyl Ethyl Ketone (MEK)	78-93-3	5 - 15*	200 PPM	300 PPM	200 PPM	300 PPM		
Acetone	67-64-1	10 - 20	500 PPM	750 PPM	750 PPM	1000 PPM		

All of the constituents of Weld-On adhesive products are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

- * Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.
- (A) Dupont and BASF mfg's Acceptable Exposure Limit (AEL) guidelines for 8 hour and 12 hour TWA, (B) Dupont/BASF recommended STEL for 15 minute TWA. **Information found in a report from the National Toxicology Program (NTP) on an inhalation study in rats and mice suggests that Tetrahydrofuran (THF) can cause tumors in animals. In the study the rats and mice were exposed to THF vapor levels up to 1800 PPM for two years (their lifetime), 6 hours/day, 5 days/week. Test

results showed evidence of liver tumors in female mice and kidney tumors in male rats. No evidence of tumors was seen in female rats and male mice. There is no data linking Tetrahydrofuran exposure with cancer in humans.

BUILK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER

DOLK SHILL HAS HALOKI	SI ESIAL HAZARD DESIGNATIONS				
DOT Shipping Name:	Adhesive		HMIS	NFPA	HAZARD RATING
DOT Hazard Class:	3	HEALTH:	2	2	0 - MINIMAL
Identification Number:	UN 1133	FLAMMABILITY:	3	3	1 - SLIGHT
Packaging Group:	II	REACTIVITY:	0	1	2 - MODERATE
Label Required:	Flammable Liquid	PROTECTIVE			3 - SERIOUS
		EQUIPMENT:	B - H		4 - SEVERE
SHIPPING INFORMATION	B = Eve. Hand/Skin (for normal solvent-welding, small spill, clean-up activities)				

DOT Shipping Name: Consumer Commodity

DOT Hazard Class: ORM-D H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/

SPECIAL HAZARD DESIGNATIONS

immersion risks)

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F/°C)	
2737 - blue, medium syrupy liquid	Ethereal	151°F (67°C) Based on first boiling component: THF	
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)	
Typical 0.924 ± 0.040	143 mm Hg. based on first boiling	Approx: 75 - 85%	
	component, THF @ 68°F (20°C)		
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER	
2.49	> 1.0	Solvent portion completely soluble in water.	
		Resin portion separates out.	

VOC STATEMENT: Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 510 Grams/Liter (q/l),

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT		FLAMMABLE LIMITS	LEL	UEL	
	-4°F (-20°C) T.C.C. Based on THF	(PERCENT BY VOLUME)	2.0	11.8	l

FIRE EXTINGUISHING MEDIA

Ansul "Purple K" potassium bicarbonate dry chemical, any appropriately sized ABC dry chemical, carbon dioxide or foam extinguisher can be used for small fires. Use of a water fog by trained personnel can extinguish small/large fires.

SPECIAL FIRE FIGHTING PROCEDURES

Evacuate enclosed areas. Stay upwind. Close quarters or confined spaces require self-contained breathing apparatus, positive pressure mask or airline mask. Use of a water fog by trained personnel can extinguish small/large fires and avoid water flow or water streams/spray distributing burning material or contaminated water over a large area or into sewers or storm drains. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS

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 the ground or lower level(s) and flash back.

Sheet 1 of 2

			SE	CTION	I V - HEALTH	HAZARD DA	ATA	
PRIMARY RO OF ENTRY:	DUTES	X	_ Inhalation	Х	Skin Contact	Eye Contact _	Ingestion	
EFFECT OF	OVEREXPOS	URE						
Inhalation: Skin Contact: Skin Absorpti Eye Contact: Ingestion: CHRONIC:		Skin irritant. Prolonged o Overexposu Moderately t Symptoms o	Liquid contact of widespread extra may result in oxic. May caus of respiratory tra	may remov cposure ma severe ey e nausea, o ct irritation	re natural skin oils resulting result in the absorption in the absorption in the injury with corneal or convomiting, diarrhea. May consiting, diarrhea.	ng in skin irritation. De n of harmful amounts o onjuctival inflammatior cause mental sluggish ory epithelium were rep	on contact with the liquid. Vap ness. ported in rats exposed to 5000 p	ed contact. ors slightly uncomfortable
	REPRODUCTI N. A		TERATOGENIC N. AP.		GENICITY EMBRYOTOX N. AP. N. AF		TO PRODUCT SYNERGISTIC P	RODUCTS
		GGRAVATE	BY EXPOSU				or respiratory system may hav	re increased
EMERGENC' Inhalation: Eye Contact: Skin Contact:	Y AND FIRST	If overcome physician.	by vapors, rem with plenty of wa staminated cloth	ater for 15	minutes and call a physic	ian.	piration. If breathing is difficult,	
Ingestion:				r or milk. [Oo not induce vomiting. (Call physician or poiso	n control center immediately.	
				SECT	ION VI - REA	CTIVITY		
STABILITY	UNSTABLE STABLE		X		IONS TO AVOID ay from heat, sparks, ope	en flame and other so	urces of ignition.	
	TO AVOID)			c acids, ch	lorinated compounds, str	ong oxidizers and isod	syanates.	
	S DECOMPOS to burn, this p			oxide, carb	oon dioxide, hydrogen ch	loride and smoke.		
HAZARDOUS POLYMERIZA		WILL NOT		X	CONDITIONS TO A		and other sources of ignition.	
					SPILL OR LE			
Eliminate all i	gnition source	s. Avoid brea		Keep liqu			Contain liquid with sand or ea m entering drains.	orth. Absorb with
Follow local,		eral regulatio		•	rt. Can be disposed of by cardous Waste Code (CA		re quantities should not be perr	nitted to enter
		S	ECTION	VIII - S	SPECIAL PRO	TECTION IN	IFORMATION	
Atmospheric approved org short-term ex	anic vapor ca	be maintained rtridge respira mergency and	d below establis tor with full face	e-piece is r	ecommended. The effect	tiveness of an air purif	ncentrations exceed those limit ying respirator is limited. Use it d, use an approved positive pro	only for a single
•				ntilation in	volume and pattern to ke	eep contaminants belo	w applicable exposure limits se	t forth in Section II.
	es or solvent re	esistant barrie	er creme should	l provide a	t dipping/immersion. Use dequate protection when plastic sheet/pipe joints.		EYE PROTECTION Splashr face shield, safety glasses with shields, etc. as appropriate for	h brow guards and side
			ID HYGIENIC F g water to flush		S ne eyes and skin in case	of contact.		
			SEC	TION	IX - SPECIAL	PRECAUTION	ONS	
Store in the s	hade betweer	140°F - 110°F		. Keep awa	•		rces of ignition. Avoid prolonge procedures before they work v	
OTHER PRE- Follow all pre- electrically gre	cautionary info	ormation give	n on container l	abel, produ	uct bulletins and our solve	ent cementing literatur	e. All material handling equipm	ent should be