IPS WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: APR 2008 Supersedes: APR 2007

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

Business: (310) 898-3300

CHEMICAL NAME and FAMILY

Mixture of ABS Resin and Organic Solvent

ABS Plastic Adhesive

TRADE NAME:

WELD-ON 2771 and 2773 Low VOC Pipe Cement for ABS Plastic Pipe

FORMULA: Proprietary

SECTION II - HAZARDOUS INGREDIENTS

None of the ingredients below are listed as

carcinogens by IARC, NTP or OSHA CAS# APPROX % ACGIH-TLV ACGIH-STEL OSHA-PEL **OSHA-STEL**

Acrylonitrile Butadiene Styrene Resin (ABS) NON/HAZ N/A N/A

Methyl Ethyl Ketone (MEK) 78-93-3 50 - 65* 200 PPM 300 PPM 200 PPM 300 PPM Acetone 67-64-1 10 - 15 500 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.

BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER		SPECIAL HAZARD DESIGNATIONS				
	DOT Shipping Name:	Adhesive		HMIS	NFPA	HAZARD RATING
l	DOT Hazard Class:	3	HEALTH:	2	1	0 - MINIMAL
l	Identification Number:	UN 1133	FLAMMABILITY:	3	3	1 - SLIGHT
l	Packaging Group:	II	REACTIVITY:	0	0	2 - MODERATE
l	Label Required:	Flammable Liquid	PROTECTIVE			3 - SERIOUS
l			EQUIPMENT:	B - H		4 - SEVERE
SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER						
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DOT Shipping Name: Consumer Commodity

DOT Hazard Class: ORM-D B = Eye, Hand/Skin (for normal solvent-welding, small spill, clean-up activities)

H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/ immersion risks)

Resin portion separates out.

SECTION III - PHYSICAL DATA								
APPEARANCE	ODOR	BOILING POINT (°F/°C)						
2771: Milky, translucent, medium syrupy liquid	Ketone	175.2°F (79°C) Based on MEK						
2773: Black opaque, medium syrupy liquid								
SPECIFIC GRAVITY @ 73 °F ± 3.6 ° (23 °C ± 2 °)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)						
Typical 0.875 - 0.894 ± 0.040	71.2 mm Hg. Based on MEK @ 73°F (23°C)	Approx: 50 - 70 %						
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER						
2.5	Approx. 5.7	Solvent portion completely soluble in water.						

VOC STATEMENT: Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 325 Grams/Liter (g/l).

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	FLAMMABLE LIMITS	LEL	UEL
21 °F (-6 °C) T.C.C. Based on MEK	(PERCENT BY VOLUME)	1.8	11.5

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 ground or lower levels and flash back

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SECTION V - HEALTH HAZARD DATA PRIMARY ROUTES OF ENTRY: Inhalation Skin Contact Eye Contact Ingestion EFFECT OF OVEREXPOSURE ACUTE: Inhalation: Concentrations of 100-300 ppm cause nose and throat irritation. Higher concentrations cause irritation, headache, nausea, drowsiness, dizziness, incoordination. Skin Contact: Prolonged exposure to liquid or vapors at concentrations greater than the TLV causes moderate irritation and dermatitis. Liquid and vapors are irritating to eyes. Can cause severe injury - damage reversible. **Eve Contact:** Moderately toxic. May cause nausea, vomiting and diarrhea. Ingestion: CHRONIC: There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects. However, simultaneous over-exposure to MEK and n-Hexane can potentiate the known irreversible neurotoxic effects of n-Hexane. There is no reported human evidence that these neurotoxic effects occur when exposure to both chemicals is maintained below established OSHA and ACGIH limits. TERATOGENICITY MUTAGENICITY **EMBRYOTOXICITY** SENSITIZATION TO PRODUCT SYNERGISTIC PRODUCTS REPRODUCTIVE EFFECTS N. AP N. AP N. AP N. AP. N. AP N. AV. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: This material may aggravate an existing dermatitis. Breathing of vapor and/or mist may aggravate asthma and inflammatory or fibrotic pulmonary diseases **EMERGENCY AND FIRST AID PROCEDURES** If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Inhalation: Call physician. Flush eyes with plenty of water for 15 minutes and call a physician. Eye Contact: Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, Skin Contact: get medical attention. Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison center immediately. Ingestion: **SECTION VI - REACTIVITY STABILITY** UNSTABLE CONDITIONS TO AVOID STABLE Keep away from heat, sparks, open flame and other sources of ignition INCOMPATIBILITY (MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. HAZARDOUS DECOMPOSITION PRODUCTS On combustion: Dense smoke containing carbon monoxide, carbon dioxlde and hydrogen cyanide. **HAZARDOUS** MAY OCCUR CONDITIONS TO AVOID WILL NOT OCCUR Keep away from heat, sparks, open flame and other sources of ignition. **POLYMERIZATION** SECTION VII - SPILL OR LEAK PROCEDURES 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. **SECTION VIII - SPECIAL PROTECTION INFORMATION** RESPIRATORY PROTECTION (Specify type) Atmospheric levels 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 self-contained breathing apparatus. VENTILATION Use only with adequate ventilation. Do not use in close quarters or confined spaces. 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 in Section II. Use only explosion-proof ventilation PROTECTIVE GLOVES PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile EYE PROTECTION Splashproof chemical goggles, surgical gloves or solvent resistant barrier cream should provide adequate protection when normal solventface shield, safety glasses (spectacles) with brow cement welding practices and procedures are used for solvent welding of plastic sheet/pipe joints. 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. SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in the shade between 40 °F - 110 °F (5 °C - 44 °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.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.