

GHS SAFETY DATA SHEET

Date Revised: NOV 2015 WELD-ON® DUIT 411™ Low VOC Plastic Pipe Cement for Electrical Conduit Supersedes: APR 2015

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

WELD-ON® DUIT 411™ Low VOC Plastic Pipe Cement for Electrical Conduit

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Electrical Conduit

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Physical		
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:	None Known			
Skin Sensitization:	NO					
Eye:	Category 2					

GHS LABEL:







Signal Word: Danger

WHMIS CLASSIFICATION:

CLASS B, DIVISION 2 CLASS D, DIVISION 2B

Hazard Statements H225: Highly flammable liquid and vapor es serious eye irritation H332: Harmful if inhaled

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness

H351: Suspected of causing cancer EUH019: May form explosive peroxides EUH066: Repeated exposure may cause skin dryness or cracking

Precautionary Statements P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P403+P233: Store in a well ventilated place. Keep container tightly closed P337+P313: Get medical advice/attention

P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION	
			Pre-registration Number	% by Weight	
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	35 - 50	
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	20 - 35	
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	10 - 25	
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	1 - 5	
Fumed Silica	112945-52-5	231-545-4	Under Review	1 - 5	

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). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eves: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Skin contact: 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.

Likely Routes of Exposure: Inhalation. Eve and Skin Contact

Acute symptoms and effects:

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

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

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: Category 2 Carcinogen

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. HMIS NFPA 0-Minimal Unsuitable Extinguishing Media: Water spray or stream Health 2 2 1-Slight **Exposure Hazards:** Inhalation and dermal contact Flammability 3 3 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke 0 3-Serious Reactivity 0 PPF В 4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

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: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel

Materials not to be used for clean up: Aluminum or plastic containers

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.

Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Storage:

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates

Follow all precautionary information on container label, product bulletins and solvent cementing literature

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

	Component	ACGIH TLV				OSHA	CAL/OSHA	CAL/OSHA		
EXPOSURE LIMITS:			ACGIH STEL	OSHA PEL	OSHA STEL	PEL-Ceiling	PEL	Ceiling	CAL/OSHA STEL	
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	
	Acetone	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm	
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E	
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm	
	Fumed Silica	10 mg/m3	N/E	6 ma/m3	N/E	N/E	3 ma/m3	N/E	N/E	

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Eye Protection:

Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Skin Protection:

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: Prevent inhalation of the solvents. Use in a well-ventilated room. 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 above.

With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Gray, heavy syrupy liquid Appearance:

Odor: Ketone Odor Threshold: 0.88 ppm (Cyclohexanone) Not Applicable

pH: Melting/Freezing Point: 66°C (151°F) to 156°C (313°F) -108.5°C (-163.3°F) Based on first melting component: THF **Boiling Range:**

Boiling Point: 66°C (151°F) Based on first boiling component: THF > 1.0 (BUAC = 1) **Evaporation Rate:**

Flammability: Flash Point: -20°C (-4°F) TCC based on THF Flammability Limits: Specific Gravity: 0.948 @23°C (73°F)

Category 2 LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-octanol/wa Not Available Vapor Pressure: 129 mm Hg @ 20°C (68°F)based on THF

Auto-ignition Temperature: 321°C (610°F) based on THF Vapor Density: >2 (Air = 1) Decomposition Temperature: Not Applicable Other Data: Viscosity: Heavy bodied

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke. Hazardous decomposition products:

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources Oxidizers, strong acids and bases, amines, ammonia Incompatible Materials

SECTION 11 - TOXICOLOGICAL INFORMATION

LC₅₀ LD₅₀ Target Organs Toxicity: Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Tetrahydrofuran (THF) Oral: 5800 mg/kg (rat) Inhalation 50,100 mg/m³ (rat) STOT SE3 Acetone Cyclohexanone Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT SE3

Reproductive Effects Teratogenicity Mutagenicity Embryotoxicity Sensitization to Product Synergistic Products Not Established

Not Established

TDG INFORMATION

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of < 510 g/l.

Degradability: Not readily biodegradable

Bioaccumulation: Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert. **SECTION 14 - TRANSPORT INFORMATION**

Proper Shipping Name: Adhesives

Hazard Class: 3

EXCEPTION for Ground Shipping

DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Secondary Risk: None

Identification Number: UN 1133 Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

PG II Packing Group:

Label Required: Class 3 Flammable Liquid

TDG CLASS: FLAMMABLE LIQUID 3 Marine Pollutant: NO SHIPPING NAME ADHESIVES

UN NUMBER/PACKING GROUP: UN 1133, PG

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia

Symbols: F. Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Risk Phrases: R11: Highly flammable. R20: Harmful by inhalation R66: Repeated exposure may cause skin dryness or cracking

R36/37: Irritating to eyes and respiratory system R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges

S46: If swallowed, seek medical advise immediately and show this container or label. S25: Avoid contact with eves.

SECTION 16 - OTHER INFORMATION

Specification Information:

Department issuing data sheet: IPS, Safety Health & Environmental Affairs All ingredients are compliant with the requirements of the European

Directive on RoHS (Restriction of Hazardous Substances). E-mail address: <EHSinfo@ipscorp.com>

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 11/19/2015 / Updated GHS Standard Format Solvent Cement for PVC Plastic Pipe Intended Use of Product:

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.

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