PARABOND®

#### **GHS SAFETY DATA SHEET**

Date Revised: APR 2018 PARABOND® P-18™ Orange Low VOC Cement for CPVC Plastic Pipe Supersedes: JAN 2015

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PARABOND® P-18™ Orange Low VOC Cement for CPVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for CPVC Plastic Pipe

SUPPLIER: MANUFACTURER: PARABOND PIPE CEMENT CO.

Chagrin Falls, OH 44022 (407) 240-4154

FMERGENCY: 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**

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Health		Er	nvironmental	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

Precautionary Statements

CLASS B, DIVISION 2 CLASS D, DIVISION 2B

Hazard Statements

H225: Highly flammable liquid and vapo H319: Causes serious eye irritation H332: Harmful if inhaled

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer

P210: Keep away from heat/sparks/open flames/hot surfaces 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

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	40 - 55
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	10 - 25
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	10 - 25
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	5 - 15

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 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

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

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Inhalation: 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, Eye 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: **HMIS** NFPA 0-Minimal Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. Unsuitable Extinguishing Media: Water spray or stream 1-Slight Exposure Hazards: Inhalation and dermal contact Flammability 3 3 2-Moderate Combustion Products: 3-Serious Oxides of carbon, hydrogen chloride and smoke Reactivity 0 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).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel. **Environmental Precautions:** Methods for Cleaning up:

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 33°C (90°F) and away from direct sunlight.

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

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

**Engineering Controls:** Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Eve Protection: 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.

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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<sup>\*</sup> 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).

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Orange, regular syrupy liquid Appearance:

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

Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF Boiling Range: 56°C (133°F) to 156°C (313°F)

Boiling Point: Flash Point: > 1.0 (BUAC = 1) 56°C (133°F) Based on first boiling component: Acetone Evaporation Rate: Category 2 -20°C (-4°F) TCC based on Acetone Flammability:

Specific Gravity: 0.925 @23°C (73°F) Flammability Limits:

LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone Solubility: Solvent portion soluble in water. Resin portion separates out. Partition Coefficient n-octanol/water: Not Available Vapor Pressure: 190 mm Hg @ 20°C (68°F) Acetone

321°C (610°F) based on THF Auto-ignition Temperature: Vapor Density: >2.0 (Air = 1) Regular bodied

**Decomposition Temperature:** Not Applicable Other Data: Viscosity: VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: < 490 q/l

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

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

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

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

Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 50,100 mg/m3 (rat) STOT SE3 Acetone Oral: 5800 mg/kg (rat)

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

**SECTION 12 - ECOLOGICAL INFORMATION** 

Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place. Typically at a rate of  $\leq$  490 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: **EXCEPTION** for Ground Shipping

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

UN 1133 Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" Packing Group: PG II

Class 3 Flammable Liquid Label Required: TDG INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2

Symbols:

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

R20-Harmful by inhalation. R67: Vapors may cause drowsiness and dizziness

R36/37: Irritating to eyes and respiratory system.

Safety Phrases: S9: Keep container in a well-ventilated place. S26: In case of contact with eves, 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

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

UN NUMBER/PACKING GROUP:

UN 1133, PG II

SECTION 16 - OTHER INFORMATION Specification Information:

Department issuing data sheet: D-Rep EHS (Environmental, Health & Safety) All ingredients are compliant with the requirements of the European

E-mail address: Steve0105@d-rep.com Directive on RoHS (Restriction of Hazardous Substances)

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

4/24/2018 Updated GHS Standard Format Reissue date / reason for reissue: Intended Use of Product: Solvent Cement for CPVC Plastic Pipe

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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