**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** ChemDrain Low VOC Cement for CPVC Plastic Pipe  
**MANUFACTURER:** IPS Corporation  
**SUPPLIER:** Charlotte Pipe and Foundry Company  
**PRODUCT USE:** Low VOC Solvent Cement for CPVC Plastic Pipe  

**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**

<table>
<thead>
<tr>
<th>GHS CLASSIFICATION:</th>
<th>Category 2</th>
<th>Category 3</th>
<th>Category 4</th>
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<th>None Known</th>
<th>NO</th>
<th>NO</th>
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<tr>
<td>Skin Irritation:</td>
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<td>Eye:</td>
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</table>

**GHS LABEL:**  

**Signal Word:** Danger  

**WHMIS CLASSIFICATION:** CLASS B, DIVISION 2  
CLASS D, DIVISION 1B

**Hazard Statements**  

H225: Highly flammable liquid and vapor  
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
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

**Precautionary Statements**  

**Contact with eyes:** Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.  
**Skin contact:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.  
**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.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS#</th>
<th>EINECS#</th>
<th>REACH Pre-registration Number</th>
<th>CONCENTRATION % by Weight</th>
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<td>109-99-9</td>
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<td>108-94-1</td>
<td>203-631-1</td>
<td>05-2116297718-25-0000</td>
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</table>

**Combustion Products:**  

Tetrahydrofuran (THF)  
Methyl Ethyl Ketone (MEK)  
Cyclohexanone  
Exposure Hazards: Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.  

**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.  

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

**SECTION 5 - FIREFIGHTING MEASURES**

**Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.  
**Health:** 2  
**NFPD:** 0-Minimal

**Unsuitable Extinguishing Media:** Water spray or stream.  
**Environmental Protection:** Keep away from sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

**Combustion Products:** Oxides of carbon, hydrogen chloride and smoke  
**Flammability:** 3  
**Reactivity:** 0  
**PPE:** B  
**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 potential sources, use only ventilation or explosion-proof exhaust ventilation equipment and ensure adequate ventilation/fume exhaust hoods.**  
**Do not eat, drink or smoke while handling.**

**Storage:** Store in ventilated room or shade below 33°C (90°F) and away from direct sunlight.  
**Keep away from 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**

**Combustion Products:** 

Tetrahydrofuran (THF)  
Methyl Ethyl Ketone (MEK)  
Cyclohexanone  

**Engineering Controls:** Use local exhaust as needed.  
**Monitoring:** Maintain breathing zone airborne concentrations below exposure limits.  
**Personal Protective Equipment (PPE):**  
**Eye 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.  
**Skin Protection:** Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.  
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 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.
SECTION 1 - INTRODUCTION

Description of Material:
Charlotte Pipe & Foundry
ChemDrain Low VOC Cement for CPVC Plastic Pipe

SECTION 2 - HAZARD IDENTIFICATION

Health Hazard:
Yellow, heavy syrupy liquid

Inhalation, Eye and Skin Contact

Flammability Limits:

Heavy bodied

Ingredient Listings:
USA TSCA, Europe EINECS, Canada DSL, Australia

Consumer Commodity:

Flammability:
Category 2

All ingredients are compliant with the requirements of the European

Inhalation:
4 hrs. 8,000 PPM (rat)

Oral:
1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)

Dermal:
2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)

Vapor Pressure:
129 mm Hg @ 20°C (68°F) based on THF

Vapor Density:
>2 (Air = 1)

SECTION 3 - CONSTITUENTS

Boiling Point:
66°C (151°F) based on THF

Melting/Freezing Point:
-108.5°C (-163.3°F) based on first melting component: THF

Specific Gravity:
0.984 @23°C (73°F)

Solubility:
Solvent portion soluble in water. Resin portion separates out.

Auto-ignition Temperature:
321°C (611°F) based on THF

Decomposition Temperature:
66°C (151°F) Based on first boiling component: THF

SECTION 4 - FIRST AID MEASURES

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is:
Not Applicable

SECTION 5 - PROCEDURAL GUIDELINES

Follow local and national regulations. Consult disposal expert.

SECTION 6 - 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 7 - FIRE FIGHTING MEASURES

Fire Extinguishing Media:
Benzene

Incompatible Materials:
Acids, oxidizers, amines

SECTION 8 - EXPOSURE LIMITS

Vapor Density:
1

Odor Threshold:
0.88 ppm (Cyclohexanone)

Risk Phrases:
R11: Highly flammable.
R36/37: Irritating to eyes and respiratory system.
S2: Keep out of the reach of children
S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S33: Take precautionary measures against static discharges.
S4: Wear protective gloves and eye protection.
S6: Follow local and national regulations.
S8: Keep out of reach of children.
S31: Take precautionary measures against static discharges.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Yellow, heavy syrupy liquid

Odor:
Ketone

Odor Threshold:
0.88 ppm (Cyclohexanone)

pH:
Not Applicable

Flammability Limits:
LEL: 1.1% based on Cyclohexanone
UEL: 11.8% based on THF

SECTION 10 - STABILITY AND REACTIVITY

SECTION 11 - TOXICOLOGICAL INFORMATION

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.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
Not Established

Mobility:
In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 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:
3

Secondary Risk:
None

Identification Number:
UN 1133

Packaging Group:
PG II

Label Required:
Class 3 Flammable Liquid

Marine Pollutant:
NO

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:
Highly Flammable, Irritant, Canc. Cat. 2

Ingredient Listings:
USA TSCA, Europe EINECS, Canada DSL, Australia

Risk Phrases:
R11: Highly flammable.
R36/37: Irritating to eyes and respiratory system.
R66: Repeated exposure may cause skin dryness or cracking
R67: Vapors may cause drowsiness and dizziness

Safety Phrases:
S2: Keep out of the reach of children
S9: Keep container in a well-ventilated place.
S25: Avoid contact with eyes. Rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.

SECTION 16 - OTHER INFORMATION

Specification Information:
All ingredients are compliant with the requirements of the European

Department issuing data sheet:
Safety Health & Environmental Affairs

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

Reissue date / reason for reissue:
1/2/2015 / Updated GHS Standard Format

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.

Exception for Ground Shipping:
DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D".

TDG INFORMATION

TDG CLASS:
FLAMMABLE LIQUID 3

SHIPPING NAME:
ADHESIVES

UN NUMBER/PACKING GROUP:
UN 1133, PG II

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