**PARABOND® MATERIAL SAFETY DATA SHEET**

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. Parabond Pipe Cement Co., Inc. 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**
Parabond Pipe Cement Co., Inc.

**ADDRESS**
P.O. Box 70013, Santa Ana, CA 92725-0013

**CHEMICAL NAME and FAMILY**
Solvent Cement for PVC Plastic Pipe
Mixture of PVC Resin and Organic Solvents

**TRADE NAME**
NUTONE PVC Cement

**FORMULA**
Proprietary

**SECTION II - HAZARDOUS INGREDIENTS**

None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA

<table>
<thead>
<tr>
<th>CAS#</th>
<th>APPROX %</th>
<th>ACGIH-TLV</th>
<th>ACGIH-STEL</th>
<th>OSHA-PEL</th>
<th>OSHA-STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyvinyl Chloride Resin (PVC)</td>
<td>NON/HAZ</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Tetrahydrofuran (THF)**</td>
<td>109-99-9</td>
<td>20 - 30</td>
<td>50 PPM Skin</td>
<td>100 PPM</td>
<td>200 PPM 250 PPM</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>78-93-3</td>
<td>35 - 47*</td>
<td>200 PPM</td>
<td>300 PPM</td>
<td>200 PPM 300 PPM</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>108-94-1</td>
<td>15 - 25</td>
<td>20 PPM Skin</td>
<td>50 PPM</td>
<td></td>
</tr>
</tbody>
</table>

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.

**BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER**

DOT Shipping Name: Adhesive

DOT Hazard Class: 3
Identification Number: UN 1133
Packaging Group: II
Label Required: Flammable Liquid

**SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER**

DOT Shipping Name: Consumer Commodity

DOT Hazard Class: ORM-D

**SECTION III - PHYSICAL DATA**

**APPEARANCE**
Clear regular syrupy liquid

**ODOR**
Ethereal

**BOILING POINT (° F/° C)**
151 °F (67 °C) Based on first boiling component: THF

**SPECIFIC GRAVITY @ 73 °F ± 3.6 °F (20 °C ± 2 °C)**
Typical 0.900 ± 0.040

**VAPOR PRESSURE (mm Hg.)**
143 mm Hg. based on first boiling component, THF @ 68 °F (20 °C)

**VAPOR DENSITY (Air = 1)**
2.49

**EVAPORATION RATE (BUAC = 1)**
> 1.0

**SPECIAL HAZARD DESIGNATIONS**

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
<th>HAZARD RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH:</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>REACTIVITY:</td>
<td>0</td>
<td>1</td>
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<tr>
<td>PROTECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EQUIPMENT:</td>
<td>B - H</td>
<td>4</td>
</tr>
</tbody>
</table>

**SPECIAL FIRE FIGHTING PROCEDURES**
Evacuate enclosed areas. Stay upwind. Close or confined quarters require self-contained breathing apparatus, positive pressure masks or airline masks. 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 floor or lower levels and may flash back.

**VOC STATEMENT:** VOC as manufactured: 785 Grams/Liter. Maximum VOC emission per SCAQMD Rule 1168, Test Method 316A: 500 Grams/Liter.
**SECTION V - HEALTH HAZARD DATA**

**PRIMARY ROUTES OF ENTRY:**
- **X** Inhalation
- **X** Skin Contact
- **Eye Contact**
- **Ingestion**

**EFFECT OF OVEREXPOSURE**

**ACUTE:**
- **Inhalation:** Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
- **Skin Contact:** Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
- **Eye Contact:** Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Vapors slightly uncomfortable.
- **Ingestion:** Moderately toxic. May cause nausea, vomiting, diarrhea. May cause mental sluggishness.

**CHRONIC:**
- Symptoms of respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000 ppm THF for 90 days. Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.

**SECTION VI - REACTIVITY**

**STABILITY**
- **UNSTABLE**
- **STABLE**

**CONDITIONS TO AVOID**
- 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**
- When forced to burn, this product gives off carbon monoxide, carbon dioxide, hydrogen chloride and smoke.

**HAZARDOUS POLYMERIZATION**
- **MAY OCCUR**
- **WILL NOT OCCUR**

**CONDITIONS TO AVOID**
- Keep away from heat, sparks, open flame and other sources of ignition.

**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. CA Hazardous Waste Code: 214.

**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. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

**PROTECTIVE GLOVES**
PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile surgical gloves or solvent resistant barrier creme should provide adequate protection when normal solvent-cement welding practices and procedures are used for solvent welding of plastic sheet/pipe joints.

**EYE PROTECTION**
Splashproof chemical goggles, face shield, safety glasses (spectacles) with brow 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 - 43.7°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.*