IPS MATERIAL SAFETY DATA SHEET Date Revised: MAR 2005  Supersedes: MAR 2003

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  Transportation Emergencies:
IPS Corporation CHEMTREC: (800) 424-3300
ADDRESS Medical Emergencies:
17109 S. Main St., P.O. Box 379, Gardena, CA. 90248 3 E COMPANY (24 Hour No.) (800) 451-8346

CHEMICAL NAME and FAMILY Business: (310) 898-3300
Ketone

TRADE NAME: FORMULA: Proprietary
WELD-ON 2354 for ABS - Plastic Cement Welding Primer

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>78-93-3</td>
<td>90 - 99*</td>
<td>200 PPM</td>
<td>300 PPM</td>
<td>200 PPM</td>
<td>300 PPM</td>
</tr>
</tbody>
</table>

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

DOT Shipping Name: Methyl Ethyl Ketone
DOT Hazard Class: 3
Identification Number: UN 1193
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  ODOR  BOILING POINT (°F/°C)
Water thin, clear liquid  Ketone  175.2°F (80°C)

SPECIFIC GRAVITY @ 73°F ± 3.6°F (23°C ± 2°C)
Typical 0.806 ± 0.040

VAPOR PRESSURE (mm Hg)
71.2 mm Hg. MEK @ 73°F (23°C)

PERCENT VOLATILE BY VOLUME (%)
Approx. 100%

VAPOR DENSITY (Air = 1)
2.5

EVAPORATION RATE (BUAC = 1)
Approx. 5.7

SOLUBILITY IN WATER
Appreciable

VOC STATEMENT: VOC as manufactured: 800 Grams/Liter (g/l). Maximum VOC Emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 650 g/l. Meets SCAQMD VOC limits for Adhesive Primer for Plastic.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT  FLAMMABLE LIMITS
21°F (-6°C), T.C.C. Based on MEK

<table>
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<th>LEF</th>
<th>UEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.8</td>
<td>11.5</td>
</tr>
</tbody>
</table>

FIRE EXTINGUISHING MEDIA

Ansul "Purple K" potassium bicarbonate dry chemical, any appropriately sized ABC dry chemical, carbon dioxide, or foam extinguisher can be used. Use of a water fog by trained personnel.

SPECIAL FIRE FIGHTING PROCEDURES

Evacuate enclosed areas. Stay upwind. Close quarters or confined spaces 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. Use of water fog by trained personnel can avoid distribution of burning debris or contaminated water over a wider area or into sewers and storm drains.

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 level(s) and flash back.

Sheet 1 of 2
**SECTION V - HEALTH HAZARD DATA**

<table>
<thead>
<tr>
<th>PRIMARY ROUTES OF ENTRY</th>
<th><strong>X</strong> Inhalation</th>
<th><strong>X</strong> Skin Contact</th>
<th>Eye Contact</th>
<th>Ingestion</th>
</tr>
</thead>
</table>

**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.

- **Eye Contact:** Liquid and vapors are irritating to eyes. Can cause severe injury - damage reversible.

- **Ingestion:** Moderately toxic. May cause nausea, vomiting and diarrhea. 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.

**STABILITY**

<table>
<thead>
<tr>
<th><strong>STABLE</strong></th>
<th><strong>UNSTABLE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONDITIONS TO AVOID</strong></td>
<td>Keep away from heat, sparks, open flame and other sources of ignition.</td>
</tr>
</tbody>
</table>

**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 dioxide and hydrogen cyanide.

**HAZARDOUS POLYMERIZATION**

(MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

**SECTION VI - REACTIVITY**

- **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.

**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 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 - 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 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.