Material Safety Data Sheet

1. Chemical Product and Company Identification

DESCRIPTION: CRAFT BOND METAL & PLASTIC CEMENT
PRODUCT TYPE: SYNTHETIC RESIN SOLUTION
APPLICATION: E426

2. Manufacturer/Supplier Information

MSDS Prepared by:
Elmer's Products, Inc.
1000 Kingsmill Parkway
Columbus, OH 43229

Emergency Phone Number
Poison Control Center
1-800-228-5635 ext 22
For additional health, safety or regulatory information, call 614-225-7689.
Call 1-800-848-9400 to place an order or request additional MSDSs.

2. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

78-93-3 Methyl Ethyl Ketone
112945-52-5 Silica, Amorphous, Pumed, Cryst.-Free

3. Hazards Identification

3.1 Emergency Overview

Appearance: Clear liquid
Odor: Ketone solvent odor
WARNING!
FLAMMABLE LIQUID AND VAPOR
Eye irritant.
Overexposure may cause central nervous system depression.

3. HMIS Rating

HEALTH = 2 (moderate)
FLAMMABILITY = 3 (serious)

http://www.elmers.com/msds/me426.htm

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3.2 Potential Health Effects

- **Immediate Hazards**

  **INGESTION:** Not expected to be harmful under normal conditions of use. If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.

  **INHALATION:** Not expected to be harmful under normal conditions of use. However, overexposure may cause central nervous system depression. Also, if allowed to become airborne, may cause irritation of nose, throat and lungs.

  **SKIN:** May cause irritation on prolonged or repeated contact.

  **EYES:** Causes irritation.

  *Methyl Ethyl Ketone 78-83-3*

  Can cause central nervous system depression. Signs and symptoms may include headache, dizziness, nausea, vomiting, unconsciousness and asphyxiation. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may lead to addiction and may be harmful or fatal.

- **Delayed Hazards**

  *Methyl Ethyl Ketone 78-83-3*

  Suspect reproductive hazard. May cause reproductive disorders based on animal data.

  Methyl ethyl ketone may potentiate (shorten the time of onset) peripheral neuropathy caused by methyl n-butyl ketone or n-hexane.

  Methyl ethyl ketone by itself has not been shown to cause peripheral neuropathy.

  -- See Footnote C.

  Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, classified by IARC nor regulated by OSHA as a carcinogen.

4. First Aid Measures

  **INGESTION:** If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.

  **INHALATION:** Remove to fresh air.

  **SKIN:** In case of irritation, flush with water.

  **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

5. Fire Fighting Measures

- **Autoignition Temperature:** Not available
- **Upper/Lower Flammable Limits:** Not available
- **Upper/Lower Explosive Limits, % by Vol:** 10/1.8
- **Flash Point:** 18 deg C (SETA)

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Keep liquid and vapor away from heat, sparks, flame and other ignition sources including, but not limited to, pilot lights, heaters, cigarettes, electric motors and static discharge. Vapor is heavier than air and may settle in low places or travel outward to a source of ignition and flashback. In case of fire, use water spray, dry chemical, foam or CO2. Use water to keep fire-exposed containers cool.

6. Accidental Release Measures

Eliminate all ignition sources. Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling.

INHALATION: Avoid prolonged or repeated breathing of vapor.
SKIN: Persons with sensitive skin should avoid prolonged, continuous contact with skin. If irritation develops, discontinue use.
EYES: Avoid contact with eyes.

7.2 Storage

Do not expose to direct sunlight for long periods of time.
Store in a cool, dry place.
Keep containers tightly closed.
Keep away from heat, sparks, flame and other ignition sources.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.
8.2 Personal Protection

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection.

8.3 Exposure Guidelines

Methyl Ethyl Ketone 78-93-3
ACGIH TLV: 200 ppm (590 mg/m³) TWA; 300 ppm (885 mg/m³) STEL
OSHA PEL: 200 ppm (590 mg/m³) TWA
REMANDED PEL: 200 ppm (590 mg/m³) TWA; 300 ppm (885 mg/m³) STEL
OSHA 1989 PEL remained, but in effect in some states
Silica, Amorphous, Pumed, Cryst.-Free 112945-52-5
ACGIH TLV: 10 mg/m³ TWA, inhalable particulate; 3 mg/m³ TWA
respirable, Particulates (insoluble) Not Otherwise Classified
OSHA PEL: 20 ppm; 80/160 mg/m³ TWA
REMANDED PEL: 6 mg/m³ TWA
OSHA 1989 PEL remained, but in effect in some states

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Volatiles</td>
<td>58</td>
</tr>
<tr>
<td>pH @ 25 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.9</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>80 °C</td>
</tr>
<tr>
<td>Vapor Density (Air-l)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Vapor Pressure, mm Hg @ 20 °C</td>
<td>77</td>
</tr>
<tr>
<td>Evaporation Rate (Bucyl Acetate=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Upper/Lower Flammable Limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Ignition Limits, % by Vol</td>
<td>10/1.8</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt; -7 deg C (SIEPA)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Ketone solvent odor</td>
</tr>
<tr>
<td>Odor Threshold, ppm</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible</td>
</tr>
<tr>
<td>Coefficient of Water/Oil Distrib.</td>
<td>Not available</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

- Incompatibilities:
  - Oxidizers, acids or bases.

- Decomposition products may include:
  - Oxides of carbon.
• Hazardous polymerization:
  Will not occur.

• Other Hazards:
  None known to Borden.

11. Toxicological Information

INHALATION: A similar product was found to be non-toxic by
  inhalation when tested as described in 16 CFR Part
  1500.3 (c) (1) and (2).
SKIN: Not toxic dermally when tested as described in 16 CFR
ABSORPTION: Part 1500.3 (c) (1) and (2).
SKIN: A similar product was not a primary irritant (primary
  skin irritation index less than 5.0/8.0) when tested as
  described in 16 CFR Part 1500.41.
EYES: A similar product was moderately irritating when tested
  as described in 16 CFR Part 1500.42.
Methyl Ethyl Ketone 78-93-3
LC50: Not available
LD50: orl-rat=6.86 ml/kg (Merck)
Silica, Amorphous, Fumed, Cryst.-Free 112945-52-5
LC50: Not available
LD50: Not available

12. Ecological Information
  Not determined.

13. Disposal Considerations
  Recover free liquid. Absorb residue and dispose of according to
  local, state/provincial, and federal requirements.
  Empty container: May contain explosive vapors. DO NOT cut, puncture
  or weld on oz nearby.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)
  The data provided in this section is for information only and may not
  be specific to your package size. You will need to apply the
  appropriate regulations to properly classify your shipment for
  transportation.
  ORM-D Consumer Commodity.

14.2 Canadian Transportation of Dangerous Goods (TDG)

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15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations


  This material is a 'health hazard' and/or a 'physical hazard' as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200.
  "Hazard Communication" Standard.

- SARA Title III: Section 311/312

  Fire hazard
  Immediate health hazard
  Delayed health hazard

- SARA Title III Section 313 and 40 CFR Part 372

  This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.
  Methyl Ethyl Ketone 78-93-3 57.32%

- TSCA Section 8(b) Inventory

  All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by Borden.

15.2 Canadian Regulations

- Workplace Hazardous Materials Information System (WHMIS)

  This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.
  CLASS B, DIV 2B
  CLASS B, DIV 2

http://www.elmers.com/msds/me426.htm
• **Canadian Environmental Protection Act (CEPA)**

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

• **National Pollutant Release Inventory (NPRI)**

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.
- Methyl ethyl ketone 78-93-3 57.92%
- Butyl benzyl phthalate 85-68-7 1.62%

16. **Other Information**

HL (Cautions Required): Products bearing the HL Health Label (Cautions Required) seal of The Art & Creative Materials Institute, Inc. (ACMI) are certified to be properly labeled in a program of toxicological evaluation by a medical expert. This program is reviewed by ACMI's Toxicological Advisory Board. These products are certified by ACMI to be labeled in accordance with the chronic hazard labelling standard, ASTM D-4236 and Federal Law, P.L. 100-695.

• **User’s Responsibility**

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

• **Disclaimer**

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