Material Safety Data Sheet

Material Name: Elmer's Model and Hobby Cement
MSDS ID: ELM-003
Issue Date 04/20/09
Revision 1.0000

Section 1 - Chemical Product and Company Identification

Part Number(s): E1013; 61013
Chemical Name: Elmer's Model and Hobby Cement

Manufacturer Information
Elmer's Products, Inc.
1 Easton Oval
Columbus, OH 43219

Emergency # Poison Control Center: 1-888-516-2502

General Comments
For additional product information, access our website at www.elmers.com or call 1-888-435-6377.
To place an order, call 1-800-848-9400.

Product Use:
Adhesive

Section 2 - Hazards Identification

Emergency Overview
This material is a clear colored liquid with a ketone odor. It is extremely flammable. It may be harmful if inhaled or swallowed. This material may cause respiratory tract irritation, skin irritation, eye irritation, and central nervous system depression.

Potential Health Effects: Inhalation
Short Term Exposure: harmful if inhaled, irritation, headache, nausea, dizziness, drowsiness, loss of coordination
Long Term Exposure: no information on significant adverse effects

Potential Health Effects: Skin
Short Term Exposure: irritation
Long Term Exposure: irritation

Potential Health Effects: Eyes
Short Term Exposure: irritation
Long Term Exposure: irritation
Potential Health Effects: Ingestion
Short Term Exposure: harmful if swallowed, irritation, headache, drowsiness, dizziness, loss of coordination
Long Term Exposure: no information on significant adverse effects.

Section 3 - Composition / Information on Ingredients

General Product Information
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>Methyl ethyl ketone</td>
<td>54.43</td>
</tr>
<tr>
<td>85-68-7</td>
<td>Butyl benzyl phthalate</td>
<td>3.85</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>0.23</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

First Aid: Inhalation
If inhalation symptoms occur, move to fresh air. If symptoms persist, see a physician.

First Aid: Skin
If skin contact occurs, wash with soap and water for five minutes.

First Aid: Eyes
If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical attention.

First Aid: Ingestion
If swallowed, get prompt medical attention. If symptoms persist, see a physician.

Section 5 - Fire Fighting Measures

General Fire Hazards
See Section 9 for Flammability Properties.
Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive.

Hazardous Combustion Products
Oxides of carbon

Extinguishing Media
Carbon dioxide, regular dry chemical, water spray or alcohol-resistant foam

Fire Fighting Equipment/Instructions
Wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus. Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

NFPA Ratings:
Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Section 6 - Accidental Release Measures

Containment Procedures
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors.

Clean-Up Procedures
Wear appropriate personal protective equipment (impervious gloves). Absorb spill or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

Evacuation Procedures
Keep unnecessary people away, isolate hazard area and deny entry.

Special Procedures
Regulations vary. All waste material should be packaged, labeled, transported, and disposed of in accordance with federal and local regulations. Consult local authorities before disposal.

Section 7 - Handling and Storage

Handling Procedures
Avoid prolonged contact with skin. Keep away from eyes. Avoid inhalation and ingestion. Do not smoke when using. Wash hands immediately after use. Ground the container when pouring. To prevent static electricity buildup, avoid the use of plastic containers. The spray mist is flammable; keep away from all ignition sources. Do not cut, puncture, or weld on or nearby empty container. Use only with adequate ventilation. KEEP OUT OF REACH OF CHILDREN.

Storage Procedures
Store in accordance with all current regulations and standards. Store in a cool, dry place. Avoid contact with heat, sparks, and open flame. Vapors can ignite explosively. If using indoors, turn off all pilot lights. Do not store or use near heat or flame. Keep separated from incompatible substances.

Section 8 - Exposure Controls / Personal Protection

A: Component Exposure Limits
Methyl ethyl ketone (78-93-3)

ACGIH: 200 ppm TWA
300 ppm STEL

OSHA: 200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL

NIOSH: 200 ppm TWA; 590 mg/m3 TWA
300 ppm STEL; 885 mg/m3 STEL

B: Exposure Limits for Chemicals which may be generated during processing
This material has no components listed.

Engineering Controls
Provide local exhaust or process control ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Wear splash resistant safety goggles with a faceshield.

Personal Protective Equipment: Skin
Wear appropriate chemical resistant clothing and chemical resistant gloves (neoprene rubber).

Personal Protective Equipment: Respiratory
Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.
Any air-purifying half-mask respirator equipped with organic vapor cartridge(s) in combination with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.
Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister having an N100, R100, or P100 filter.
Any powered, air-purifying respirator with a tight-fitting facepiece, organic vapor cartridge(s) and high-efficiency particulate filter(s).
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

For Unknown Concentrations or Immediately Dangerous to Life or Health -
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Personal Protective Equipment: General
Use good hygiene practices when handling this material including changing and laundering work clothes after use. A safety shower should be available. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### Section 9 - Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear colored liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Ketone</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>78 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt;1 (air=1)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>174-212 °F</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>18.8%</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.952</td>
</tr>
<tr>
<td>Weight per Gallon</td>
<td>7.93 lbs.</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than n-butyl acetate</td>
</tr>
<tr>
<td>VOC</td>
<td>4.34 lbs./gallon (minus exempt)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>21 °F</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>TCC</td>
</tr>
<tr>
<td>Upper Flamm. Limit (UFL)</td>
<td>10.00%</td>
</tr>
<tr>
<td>Lower Flamm. Limit (LFL)</td>
<td>1.70%</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temp.</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>OSHA Flamm. Class</td>
<td>1B</td>
</tr>
<tr>
<td>Coeff of Water Oil Dist.</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Section 10 - Chemical Stability & Reactivity Information

**Chemical Stability**
Stable at normal temperatures and pressure.

**Chemical Stability: Conditions to Avoid**
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Avoid contact with incompatible materials.
Incompatibility
Acids, alkaline materials, amines, strong oxidizing agents

Hazardous Decomposition
Oxides of carbon

Possibility of Hazardous Reactions
Will not polymerize.

Section 11 - Toxicological Information

Acute Dose Effects
This material may be harmful if inhaled or swallowed. This material may cause respiratory tract irritation, skin irritation, eye irritation, and central nervous system depression.

A: Component Analysis - LD50/LC50
Methyl ethyl ketone (78-93-3)
Inhalation LC50 Mouse: 32 g/m3/4H; Oral LD50 Rat: 2737 mg/kg; Dermal LD50 Rabbit: 6480 mg/kg

Butyl benzyl phthalate (85-68-7)
Inhalation LC50 Rat: >6.7 mg/L/4H; Oral LD50 Rat: 2330 mg/kg; Dermal LD50 Rat: 6700 mg/kg

Water (7732-18-5)
Oral LD50 Rat: >90 mL/kg

Irritation
May cause respiratory tract irritation, skin irritation, and eye irritation.

Carcinogenicity
ACGIH, IARC, OSHA, NIOSH, and NTP carcinogen lists have been checked for selected similar materials or those components with CAS registry numbers. Only those components found on any of these lists will be shown below. A component not appearing was not found on any of the lists and is not considered to be a carcinogen by these sources.

A: Component Carcinogenicity
Butyl benzyl phthalate (85-68-7)
IARC: Monograph 73 [1999]; Supplement 7 [1987] (Group 3 (not classifiable))

Mutagenicity
No information available for the mixture.

Teratogenicity
No information available for the mixture.

Developmental Effects
No information available for the mixture.

Sensitization
No information available for the mixture.

Target Organ Effects
Respiratory system, skin, eyes, central nervous system

Medical Conditions Aggravated by Exposure
Respiratory system, skin, nervous system disorders
Section 12 - Ecological Information

Ecotoxicity
No additional information available.

A: Component Analysis - Ecotoxicity - Aquatic Toxicity
Methyl ethyl ketone (78-93-3)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>3130-3320 mg/L</td>
</tr>
<tr>
<td></td>
<td>[flow-through]</td>
</tr>
<tr>
<td>48 Hr EC50 water flea</td>
<td>520 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>5091 mg/L</td>
</tr>
</tbody>
</table>

Butyl benzyl phthalate (85-68-7)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>1.0-10.0 mg/L</td>
</tr>
<tr>
<td></td>
<td>[static]</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>0.82 mg/L [flow-</td>
</tr>
<tr>
<td></td>
<td>through]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>1.39-3.88 mg/L</td>
</tr>
<tr>
<td></td>
<td>[flow-through]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>&gt;0.78 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>1.0-10.0 mg/L</td>
</tr>
<tr>
<td></td>
<td>[static]</td>
</tr>
<tr>
<td>96 Hr EC50 Selenastrum capricornutum, Skeletonema costatum</td>
<td>0.1 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 water flea</td>
<td>3.0 mg/L [Static]</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>0.97 mg/L</td>
</tr>
</tbody>
</table>

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions
None known.

A: Component Waste Numbers
Methyl ethyl ketone (78-93-3)

RCRA: waste number U159 (Ignitable waste, Toxic waste)

200.0 mg/L regulatory level Disposal Instructions
Subject to disposal regulations: D001. Dispose in accordance with all applicable regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Section 14 - Transportation Information

US DOT Information

Shipping Name: No classification assigned.

Additional Info.: Material complies with the requirements of 49CFR173.4 (Small quantity exceptions).
TDG Information

Shipping Name: No classification assigned.

Additional Info.: Material complies with the requirements of 49CFR173.4 (Small quantity exceptions).

Section 15 - Regulatory Information

US Federal Regulations
No additional information.

A: Component Analysis
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Methyl ethyl ketone (78-93-3)
CERCLA: 5000 lb final RQ; 2270 kg final RQ

Butyl benzyl phthalate (85-68-7)
CERCLA: 100 lb final RQ; 45.4 kg final RQ

B: TSCA 12(b) Export Notification
Not listed.

SARA 311/312 Hazardous Categories

Acute Health: Yes Chronic Health: No Fire: Yes Pressure: No Reactive: No

State Regulations
Other state regulations may apply. Check individual state requirements.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Butyl benzyl phthalate</td>
<td>85-68-7</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Canadian WHMIS Information

A: Component Analysis - WHMIS IDL
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>1 %</td>
</tr>
<tr>
<td>Butyl benzyl phthalate</td>
<td>85-68-7</td>
<td>1 %</td>
</tr>
</tbody>
</table>
**WHMIS Classification**
No classification determined.

**Additional Regulatory Information**
All the components of this substance are listed on or are exempt from the inventory.

**A: Component Analysis - Inventory**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>Yes</td>
</tr>
<tr>
<td>Butyl benzyl phthalate</td>
<td>85-68-7</td>
<td>Yes</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Section 16 - Other Information**

**Other Information**
No additional information.

**MSDS History**
New MSDS: 4/17/09

**Key/Legend**
ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

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