**SECTION 1 - MANUFACTURER INFORMATION**

**Manufacturer/Dist.:** DBA Products Co., Inc.
22 Skokie Highway
Lake Bluff IL 60044

**Information #:** 1-708-234-8100
**Emergency #:** 1-800-255-3924 (Chem-Tel) 24 hours
**Emergency Inter #:** 1-819-979-0626 (Chem-Tel) 24 hours/Call Collect

**SECTION 1A - PRODUCT IDENTIFICATION**

**Product name:** DBA Wave Topcoat
**Product Description:** Aqueous Polyurethanes Dispersion
**Product #:** 112720
**Revision Date:** 8/16/93

**LEGEND:**
- Severe Hazard = 4
- Serious Hazard = 3
- Moderate Hazard = 2
- Slight Hazard = 1
- Minimal Hazard = 0

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>CAS #</th>
<th>% Exposure PPM</th>
<th>TLV MG/M3</th>
<th>SARA 313</th>
<th>NTP</th>
<th>IARC</th>
<th>65</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-Methyl Pyrolidinone (Manufacturer suggests 100 ppm)</td>
<td>872-50-4</td>
<td>&lt;15</td>
<td>N/E*</td>
<td>N/E*</td>
<td>N/I</td>
<td>N/I</td>
<td>N/I</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>&lt;10</td>
<td>50ppm</td>
<td>N/I</td>
<td>N/I</td>
<td>N/I</td>
<td>N/I</td>
</tr>
</tbody>
</table>

* None established

**SECTION 2 - HAZARDOUS INGREDIENTS**

**HEALTH EFFECTS** (Acute & Chronic): Inhalation: TEA and MMP vapors are irritating to the eyes, nose and throat. Symptoms of irritation may include red, itchy eyes, dryness of the throat and tightness in the chest. Exposure to very high concentrations of MMP may cause headache, nausea, narcotic fatigue and loss of appetite.

Eye: Liquid, aerosol and concentrated vapors of MMP and TEA are severely irritating and can cause pain, tearing, redness and swelling of the eye. Untreated corneal damage may occur and injury is slow to heal.

Skin: In a repeated insult patch test using MMP, 50 human subjects showed no irritation during the first 24 hour exposure. However, through repeated and prolonged contact, some mild transient reaction was noted. No evidence pointing to sensitization was noted.

**EMERGENCY FIRST AID PROCEDURES:** Inhalation: Remove to fresh air. Administer oxygen or artificial respiration as needed. Get medical attention.

Eye: Flush immediately with clean water (low pressure) for at least 15 minutes, while raising eyelids to insure flushing of entire eye surface. If irritation persists, consult physician.

Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse.

**PRIMARY ROUTE OF ENTRY:** Inhalation, skin contact (absorption), eye contact.

**SECTION 3 - HEALTH HAZARD DATA**

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** No information.

**SECTION 4 - PHYSICAL, FIRE, EXPLOSION DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashpoint (C):</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density: MMP-3.4 (air=1)</td>
<td>UEL: 12.2%</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.1</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>N/I</td>
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<tr>
<td>Boiling Point:</td>
<td>212°F</td>
</tr>
<tr>
<td>Weight per gallon:</td>
<td>9.17 lbs.</td>
</tr>
<tr>
<td>Appearance &amp; odor:</td>
<td>Milky white liquid, slight solvent odor.</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Soluble.</td>
</tr>
</tbody>
</table>

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam or water.

**FIRE & EXPLOSION HAZARDS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** By fire: carbon monoxide, carbon dioxide, oxides of nitrogen.

**SPECIAL FIREFIGHTING PROCEDURES:** Full emergency equipment with self-contained breathing apparatus should be worn. During a fire irritating, toxic gases and smoke are present from combustion and decomposition. Closed containers may explode when exposed to extreme heat. Solid residue will support combustion after water has evaporated.

**SECTION 5 - REACTIVITY DATA**

**IS PRODUCT STABLE:** Stable under normal conditions.

**CONDITIONS TO AVOID FOR STABILITY:** N/I

**INCOMPATIBILITY (Materials to Avoid):** Strong oxidizing agents or reducing agents.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID FOR POLYMERIZATION:** Strong oxidizing agents.

**SECTION 6 - EXPOSURE CONTROL DATA**

**VENTILATION:** Exhaust ventilation sufficient to keep the vapor concentration of the hazardous constituents below the TLV level.

**RESPIRATORY PROTECTION:** None.

**PROTECTIVE EQUIPMENT:** Safety shower and eyewash station should be available in work area.

Eyes: Liquid chemical goggles or full face shield. Contact lenses should not be worn.

Hands: Chemical resistant gloves. Cover as much of the exposed skin as possible.

Clothing: Chemical resistant apron should be worn to prevent repeated or prolonged skin contact.

**WORK PRACTICES:** Keep containers tightly closed when not in use.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water after using product.
SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition, ventilate spill area, dikes, or impound spilled material, and control further spillage if possible. Notify proper authorities if necessary. Cover spilled material and control further spillage if possible. Notify proper authorities if necessary. Cover spilled material with sawdust, vermiculite, or other absorbent material. Collect material in open containers, remove to safe place and cover. Flush spill area with water.

WASTE DISPOSAL METHODS: Waste must be disposed of in accordance with all federal, state, and local environmental regulations.

SECTION 8 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a controlled temperature area where temperature is maintained between 41 and 90 degrees F. Protect from freezing. Keep containers tightly sealed when not in use.

OTHER PRECAUTIONS: Material is water based and will freeze at 32°F. MMP is a hygroscopic material.

SECTION 9 - SHIPPING INFORMATION

<table>
<thead>
<tr>
<th>SHIPPING INFORMATION</th>
<th>U.S. D.O.T. INFORMATION</th>
<th>INTERNATIONAL INFORMATION</th>
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<tbody>
<tr>
<td>SHIPPING NAME</td>
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<tr>
<td>HAZARD CLASS</td>
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<tr>
<td>U.N. NUMBER</td>
<td>None</td>
<td></td>
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<tr>
<td>MARKINGS</td>
<td>Non-regulated</td>
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</tbody>
</table>

The information contained herein is based on the data considered to be accurate. While the information is believed to be reliable, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Since the use of this information and the conditions and use of this product are controlled by the user, it is the user’s obligation to determine the conditions of the safe use of the product.