MATERIAL SAFETY DATA SHEET

MANUFACTURER OR DISTRIBUTOR: M. Grumbacher, Inc.
Three Englehard Dr.
Cranbury NJ 08512

INFORMATION TELEPHONE NUMBER: 609-655-8282
EMERGENCY TELEPHONE NUMBER: 800-346-3278

------------------ SECTION I - PRODUCT IDENTIFICATION ------------------

PRODUCT NAME: COPAL PAINTING MEDIUM PRODUCT NO. 587
PRODUCT SIZES: 74, 236 ML
PRODUCT CLASS:

------------------ SECTION II - HAZARDOUS INGREDIENTS ------------------

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS#</th>
<th>PEL/TLV (MG/M3)</th>
<th>MAX %WEIGHT</th>
<th>NTP</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-LIMONENE</td>
<td>5989-27-5</td>
<td>N/A</td>
<td>37.7000</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

------------------ SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS ------------------

BOILING POINT: 311.00 F
VAPOR PRESSURE: N/A
SPECIFIC VAPOR DENSITY (AIR=1): N/A
SPECIFIC GRAVITY: 0.9080-0.9087
SOLUBILITY IN WATER: N/A
REACTIVITY IN WATER: NON-REACTIVE
APPEARANCE AND ODOR: Clear amber liquid with citrus odor.

------------------ SECTION IV - FIRE AND EXPLOSION INFORMATION ------------------

FLASH POINT (METHOD): 144°F TCC
AUTOIGNITION TEMPERATURE: N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: COMBUSTIBLE.

------------------ SECTION V - PHYSICAL HAZARDS/REACTIVITY ------------------

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE
COMPANY: M. Grumbacher, Inc.  PRODUCT: 587
BRAND NAME: COPAL PAINTING MEDIUM

SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs

PRIMARY ROUTES OF ENTRY:

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: MAY BE HARMFUL IF SWALLOWED.

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: EXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS.

CARCINOGEN LISTING: NTP: NO  IARC: NO  OSHA: NO
SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: NONE

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

SECTION VII - SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Do not store or use near heat or flame. KEEP OUT OF REACH OF CHILDREN.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: Avoid breathing vapors by assuring adequate cross ventilation.

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: Avoid prolonged contact with skin. Wash hands immediately after use. When using do not eat, drink or smoke.

Form Completed by: Woodhall Stopford, MD, MSPH
Last Updated: 03/11/92