## SECTION I - MATERIAL SAFETY DATA SHEET

**TEMPO PRODUCTS CO.**

**A PLASTI-KOTE CO., INC.**

1000 LAKE ROAD
MEDINA, OHIO 44256
1-216-725-4511

DATE PREPARED: 06-11-83

**PRODUCT CLASS: AEROSOL SPRAY PAINT**

**SHIPPING NAME: CONSUMER COMMODITY**

ORM-D INTL UN NO.: 1950

NE = NONE ESTABLISHED

NA = NONE AVAILABLE

### HAZARD RATING

<table>
<thead>
<tr>
<th>Rating</th>
<th>HMIS</th>
<th>NFPA</th>
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</thead>
<tbody>
<tr>
<td>4 = SEVERE</td>
<td>HEALTH 1</td>
<td>HEALTH 2</td>
</tr>
<tr>
<td>3 = SERIOUS</td>
<td>FLAMMABILITY 4</td>
<td>FLAMMABILITY 4</td>
</tr>
<tr>
<td>2 = MODERATE</td>
<td>REACTIVITY 0</td>
<td>REACTIVITY 0</td>
</tr>
<tr>
<td>1 = SLIGHT</td>
<td>PERSONAL -</td>
<td>OTHER -</td>
</tr>
<tr>
<td>0 = MINIMAL</td>
<td>PROTECTION E</td>
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</table>

### SECTION II - HAZARDOUS INGREDIENTS

**CLASSIC LACQUERS**

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NUMBER</th>
<th>ACGH® TWA (PPM)</th>
<th>OSHA PEL (PPM)</th>
<th>OTHER TLV (PPM)</th>
<th>VAPOR PRESSURE (mmHg at 20°C)</th>
<th>% (wt) 6-14</th>
<th>% (wt) 6-31 6oz</th>
<th>% (wt) 9-12, 9-16, 9-24</th>
<th>% (wt) 9-345</th>
<th>% (wt) 9-339, 9-346 9-1000</th>
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<tbody>
<tr>
<td><strong>ACETONE</strong></td>
<td>67-64-1</td>
<td>750</td>
<td>1000</td>
<td>186</td>
<td>26-33</td>
<td>15-20</td>
<td>40-45</td>
<td>40-50</td>
<td>30-35</td>
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<tr>
<td><strong>ETHYL ACETATE</strong></td>
<td>141-78-6</td>
<td>400</td>
<td>400</td>
<td>68</td>
<td>5-10</td>
<td></td>
<td></td>
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<tr>
<td><strong>ETHYL ALCOHOL</strong></td>
<td>64-17-5</td>
<td>1000</td>
<td>1000</td>
<td>40</td>
<td>0-5</td>
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<td><strong>ETHYL 3-ETHOXY PROPIONATE</strong></td>
<td>763-69-9</td>
<td>NE</td>
<td>NE</td>
<td>50</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td><strong>DIISOBUTYL KETONE</strong></td>
<td>108-83-8</td>
<td>25</td>
<td>50</td>
<td>1.7</td>
<td>0-5</td>
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<td><strong>ISOBUTYL ACETATE</strong></td>
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<td>150</td>
<td>12.8</td>
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<td>400</td>
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<tr>
<td>** METHYL ETHYL KETONE**</td>
<td>78-93-3</td>
<td>200</td>
<td>200</td>
<td>70</td>
<td>0-5</td>
<td>0-5</td>
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<tr>
<td><strong>METHYL ISOBUTYL KETONE</strong></td>
<td>108-10-1</td>
<td>50</td>
<td>100</td>
<td>16</td>
<td>10-15</td>
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<tr>
<td><strong>MINERAL SPIRITS</strong></td>
<td>84-742-48-9</td>
<td>NE</td>
<td>NE</td>
<td>2.0</td>
<td>0-5</td>
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<tr>
<td><strong>OXO ALCOHOL ESTER</strong></td>
<td>88220-35-7</td>
<td>NE</td>
<td>NE</td>
<td>1.4</td>
<td>5-10</td>
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<td><strong>TOLUENE</strong></td>
<td>106-88-3</td>
<td>100</td>
<td>100</td>
<td>22</td>
<td>5-10</td>
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<tr>
<td><strong>XYLENE</strong></td>
<td>1330-20-7</td>
<td>100</td>
<td>100</td>
<td>5.1</td>
<td>5-10</td>
<td>45-50</td>
<td>5-10</td>
<td>35-40</td>
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<tr>
<td><strong>PROPANE-ISOBUTANE MIXTURE</strong></td>
<td>68476-86-8</td>
<td>NE</td>
<td>NE</td>
<td>19</td>
<td>23</td>
<td>19</td>
<td>23</td>
<td>23</td>
<td></td>
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</tr>
</tbody>
</table>

* THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

### SECTION III - PHYSICAL DATA

**BOILING RANGE:** 133° - 331° F

**MELTING POINT:** Estimated min. 1500° F

**VAPOR DENSITY:** X Heavier___Lighter than air

**WEIGHT PER GALLON:** 7.8 - 8.0 (PAINT)

**SPECIFIC GRAVITY:** (H2O = 1): < 1

**SOLUBILITY IN WATER:** Slight to moderate

**EVAPORATION RATE:** _Faster _X_ Slower than Ether.

**APPEARANCE AND ODOR:** Typical solvent paint

**EVAPORATION RATE:**

**PERCENT VOLATILE BY VOLUME:** 80-90

(Butyl Acetate = 1) Section 1 products > 1

See Section II for volatile, hazardous components.

Propellants > 1 (Propellant faster)

Continue on page 2
SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA: IA  FLASH POINT: 0°F (-18°C) TCC  
(EXEMPLARY FLAMMABLE)  UNIFORM FIRE CODE LEVEL 3 AEROSOL  (Propellant = -100°F)  
EXTINGUISHING MEDIA:  ALCOHOL FOAM, CO2, DRY CHEMICAL  
LEL 1.0'  

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Closed containers may explode and/or autoignite when exposed to extreme heat, vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other locations distant from material handling point.  

SPECIAL FIRE FIGHTING PROCEDURES:  
Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable use self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode.  

SECTION V - HEALTH HAZARD DATA  

ROUTE(S) OF ENTRY:  _X_ INHALATION  _X_ SKIN  ___ INGESTION  _X_ EYES  

CARCINOGENICITY:  ____ NTP  ____ IARC  ___ OSHA  
Ingredients for product(s) listed in Section I are not found in these agency lists.  

SYMPTOMS OF OVEREXPOSURE:  
ACUTE:  
EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS AND EVEN ASPHYXIATION.  
EYE CONTACT - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.  
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.  
SKIN CONTACT - CAN CAUSE IRRITATION FOR SOME PERSONS.  

CHRONIC: None known for product(s) in Section I.  

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO PLASTIC IN THE PERIPHERAL BRAIN AND NERVOUS SYSTEM DAMAGE, SEVERE OVEREXPOSURE IN LABORATORY ANIMALS MAY RESULT IN NEPHRITIS AND DAMAGE TO KIDNEYS, LUNGS, AND SPLEEN, HEART AND ADRENALS. INTENTIONAL OR UNSUPERVISED CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.  

MEDICAL CONDITIONS: Generally Aggravated By Exposure - Can cause respiratory, skin, or eye irritation.  

FIRST AID:  
EMERGENCY PROCEDURES:  
1. IF BREATHED - REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING IS STOPPED, GIVE ARTIFICIAL RESPIRATION AND SEEK MEDICAL HELP.  
2. IF IN EYES - FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN.  
3. IF SWALLOWED - DO NOT INDUCE VOMITING (ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE PNEUMONITIS, WHICH CAN BE FATAL). KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION/POISON CONTROL CENTER.  
4. IF ON SKIN - WASH WITH SOAP AND WATER OR VARIOUS HAND CLEANERS, AND WASH CLOTHING.  

SECTION VI - REACTIVITY DATA  

STABILITY:  _X_ UNSTABLE  _X_ STABLE  HAZARDOUS POLYMERIZATION:  ___ MAY OCCUR  _X_ WILL NOT OCCUR  
CONDITIONS TO AVOID:  Heat, Sparks and open flame.  

INCOMPATIBILITY (Materials to avoid):  Avoid contact with strong oxidizing agents and heat.  

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials, carbon dioxide/carbon monoxide, various hydrocarbons, nitrogen compounds, etc., when burned.  
CONDITIONS TO AVOID:  Not applicable.  

SECTION VII - SPILL OR LEAK PROCEDURES  

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  ELIMINATE ALL IGNITION SOURCES, VENTILATE AREA, ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO A CLOSED CONTAINER.  

WASTE DISPOSAL METHOD:  MATERIAL COLLECTED ON ABSORBENT MATERIAL MAY BE DEPOSITED IN A POSTED TOXIC SUBSTANCE LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.  

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  DO NOT PUNCTURE OR INCINERATE.  
DO NOT STORE IN AREAS ABOVE 120°F, OR IN DIRECT SUNLIGHT, OR NEAR HEAT OR OPEN FLAMES.  

OTHER PRECAUTIONS:  None.  

STORAGE CATEGORY:  STORE LARGE QUANTITIES IN BUILDING PROTECTED FOR STORAGE OF FLAMMABLE LIQUIDS.  

SECTION VIII - SPECIAL PROTECTION INFORMATION  

RESPIRATORY PROTECTION:  FOR CASUAL/OCCASIONAL USE - TO AVOID BREATHING VAPORS OR SPRAY MIST, OPEN WINDOWS AND DOORS OR USE OTHER MEANS TO ENSURE FRESH AIR ENTRY DURING APPLICATION AND DRYING. IF YOU EXPERIENCE EYE WATERING, HEADACHE, OR DIZZINESS, INCREASE FRESH AIR, WEAR RESPIRATORY PROTECTION (NIOSH/MSHA TC230 OR EQUIVALENT), OR LEAVE THE AREA.  
VENTILATION:  FOR REGULAR/CONTINUOUS USE - PROVIDE SUFFICIENT MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLVs IN SECTION II.  

PROTECTIVE GLOVES:  WEAR CHEMICAL RESISTANT GLOVES, SUCH AS NEOPRENE. IF SKIN CONTACT IS TO BE AVOIDED.  

EYE PROTECTION:  CHEMICAL SPLASH GOGGLES, IN COMPLIANCE WITH OSHA REGULATIONS, ARE ADVISED.  

OTHER EQUIPMENT:  WHERE SPECIAL OR UNUSUAL CONDITIONS EXIST, SEEK THE EXPERT ASSISTANCE OF AN INDUSTRIAL HYGIENIST.  

WORKHYGENIC PRACTICES:  WASH HANDS BEFORE EATING OR USING WASHROOM, AS WITH ALL CHEMICALS, MINIMIZE PERSONAL CONTACT.  

THE INFORMATION CONTAINED ABOVE IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO CIRCUMSTANCES.  

MSDS SHEET PREPARED BY:  [Signature]  DATE:  6/17/93