MATERIAL SAFETY DATA SHEET
PRODUCT NAME: CRAYOLA Crayons
MSDS NO. CRAY-6

1. PRODUCT IDENTIFICATION

PRODUCT NAME(S): CRAYOLA-Crayons

PRODUCT COLORS/CODES: 52-0006, 52-0008, 52-0012, 52-0016, 52-0024,
52-0033, 52-0040, 52-0041, 52-0048, 52-0060, 52-0064, 52-0080, 52-0096,
52-008F, 52-008M, 52-008P, 52-008W, 52-016F, 52-0160, 52-033B, 52-038F,
52-064D, 52-080W, 52-0241, 52-0322, 52-0333, 52-0336, 52-0389, 52-0391,
52-0836, 52-3006, 52-3008, 52-3012, 52-3016, 52-3024, 52-3080, 52-7096,
52-8008, 52-8038, 52-8389, 04-7796

2. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CAS NO</th>
<th>OSHA PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Silicate</td>
<td>1332-58-7</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
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<tr>
<td>Hydrous Calcium Magnesium Silicate</td>
<td>14807-96-6</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
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<tr>
<td>Pigment Red 101</td>
<td>1309-37-1</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
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<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>1 mg/m³</td>
<td>1 mg/m³</td>
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</tbody>
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3. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 575 - 725°F.
FREEZING POINT: 145 - 150°F.
VAPOR PRESSURE @ 20°C.: 0.01 - 1.0 mm @ 180°C.
VAPOR DENSITY (AIR = 1): 5 - 9.8
EVAPORATION RATE (BUTYL ACETATE = 1): Less than 0.01
SPECIFIC GRAVITY (WATER = 1): 0.81 - 0.85 at 75°C.
SOLUBILITY IN WATER: Less than 0.01% @ 1 ATM and 25°C. (77°F.)
APPEARANCE AND ODOR: 64 various colors - slight paraffin (wax) odor

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: >365°F; ASTM D-92, Cleveland Open Cup

FLAMMABLE LIMITS IN AIR - % BY VOLUME:
<table>
<thead>
<tr>
<th>UPPER:</th>
<th>LOWER:</th>
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<tbody>
<tr>
<td>7.0%</td>
<td>0.9%</td>
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</table>

EXTINGUISHING MEDIA: ABC Dry Chemical, CO₂ (carbon dioxide), foam, sand or sodium bicarbonate

SPECIAL FIRE FIGHTING PROCEDURES: Handle the same as any wax fire. If stored in large quantities in an enclosed area, use air-supplied rescue equipment.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Do not store with strong oxidizers.
5. HEALTH HAZARD DATA

RESHOLD LIMIT VALUE: Not established

ROUTES OF ENTRY:
- INHALATION: Does not apply
- SKIN: Does not apply
- INGESTION: Possible

ACUTE OR CHRONIC HEALTH HAZARDS: None known

EFFECTS OF OVEREXPOSURE: Does not apply

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

EMERGENCY AND FIRST AID:

EYES: Flush with plenty of water for about 15 mins. Contact a physician.
SKIN: Wash with soap and water
INGESTION: Do not induce vomiting. Contact physician or Poison Control Center.
INHALATION: Remove to fresh air.

CARCINOGENICITY: THE INGREDIENTS OF THIS PRODUCT ARE ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY.

6. REACTIVITY DATA

ABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (MATERIALS TO AVOID): Chlorinated solvents will dissolve product.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide in case of incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Avoid contact with strong oxidants; such as, liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite

7. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL: Recover free product. Keep product out of sewers & watercourses by diking or impounding. Advise authorities if product enters sewers or watercourses. Assure conformity with applicable governmental regulations.

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING: Store at room temperature - not to exceed 105°F.
8. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required

PROTECTIVE GLOVES: None required

EYE PROTECTION: None required

OTHER PROTECTIVE EQUIPMENT: None required

VENTILATION: None required

OTHER PROTECTION: None required

9. SPECIAL INFORMATION

VOC INFORMATION:

LBS. VOC PER GAL. OF COATING LESS WATER: Not established

DATE PREPARED: Revised 1/26/93
APPROVED BY: Phillip E. Moll

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