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MATERIAL SAFETY DATA SHEET
PRODUCT NAME: CRAYOLA Crayons

MSDS NO. CRAY-6
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BINNEY & SMITH INC.
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Received

Facilities

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

HAZARDOUS COMPONENTS	CAS NO	OSHA PEL	TLV
Aluminum Silicate	1332-58-7	10 mg/m ³	10 mg/m ³
Hydrous Calcium Magnesium Silicate	14807-96-6	2 mg/m ³	2 mg/m ³
Pigment Red 101	1309-37-1	5 mg/m ³	5 mg/m ³
Copper	7440-50-8	1 mg/m ³	1 mg/m ³

3. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 575 - 726°F.

FREEZING POINT: 145 - 150°F.

VAPOR PRESSURE @ 20°C.: 0.01 - 1.0mm @ 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:

UPPER: 7.0%
LOWER: 0.9%

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

THRESHOLD 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

STABILITY: 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.

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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:

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

DATE PREPARED: Revised 1/26/93

APPROVED BY: Phillip E. Moll

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