MATERIAL SAFETY DATA SHEET
PRODUCT NAME: CRAYOLA Markers

BINNEY & SMITH INC.
1100 CHURCH LANE
EASTON, PA 18044

TELEPHONE NOS.
EMERGENCY: 1-610-253-6271
INFORMATION: 1-800-272-9652

1. PRODUCT IDENTIFICATION

PRODUCT NAME(S): CRAYOLA® Markers-Broad and Fine Line (Classic, Tropical, Bold, Fluorescent Colors, Pastels, Assorted, Wildlife, Brite)


2. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS | CAS NO. | OSHA PEL | TLV |
-------------------------|--------|---------|----|
Glutaraldehyde - 25% Aqueous | 111-30-8 | 0.82 mg/m³ | 0.82 mg/m³ |

3. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 215-225°F.
FREEZING POINT: Not applicable
VAPOR PRESSURE @ 20°C.: Not applicable
VAPOR DENSITY (AIR=1): <1
EVAPORATION RATE (BUTYL ACETATE=1): <1
SPECIFIC GRAVITY (WATER=1): >1
SOLUBILITY IN WATER: Completely water-soluble
APPEARANCE AND ODOR: Various colors - No odor

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: Not applicable
FLAMMABLE LIMITS IN AIR-
% BY VOLUME: UPPER: None
LOWER: None

EXTINGUISHING MEDIA: Water, CO₂, or Foam

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None
5. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not established

ROUTES OF ENTRY:
  INHALATION: Not applicable
  SKIN: Possible
  INGESTION: Possible

ACUTE OR CHRONIC HEALTH HAZARDS: None

EFFECTS OF OVEREXPOSURE: None known

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

EMERGENCY AND FIRST AID:

  EYES: Flush with plenty of water for 25 mins. Contact a physician.
  SKIN: Wash with soap and water
  INGESTION: Do not induce vomiting. Contact a 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): None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known
7. SPILL OR LEAK PROCEDURES

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

WASTE DISPOSAL METHOD: In accordance with Local, State and Federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING: Store at room temperature, do not allow to freeze.

8. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required

PROTECTIVE GLOVES: Not required

EYE PROTECTION: Not required

OTHER PROTECTIVE EQUIPMENT: Not required

VENTILATION: Not required

9. SPECIAL INFORMATION

VOC INFORMATION:

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

DATE PREPARED: 12/15/95
APPROVED BY: Millie P. Padron, Senior Process Development Engineer

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