

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Chromark Ink

Effective Date 3/14/91

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 * Chromark Corporation EMERGENCY INFORMATION *
 * 827 So. Bowen MEDICAL (303) 772-6934 *
 * Longmont, CO 80502-1597 *
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 * SECTION I: GENERAL INFORMATION *

PRODUCT NAME: Chromark Ink
 PRODUCT CLASS: Water-based Ink

 * SECTION II: HAZARDOUS INGREDIENTS *

INGREDIENT	CAS #	%	PEL
Dipropylene Glycol			
Monomethyl Ether	034590-94-8	10-15	100 HEM OSHA 8 HRS TWA
Water soluble Dye		1 to 5%	
Various dyes used in different colors: No known hazardous components in dyes. No significant harmful environmental effects are known			

 * SECTION III: PHYSICAL/CHEMICAL DATA *

BOILING RANGE: 212° - 363° F
 % VOLATILE BY WEIGHT: 98
 EVAPORATION RATE: SLOWER THAN ETHYL ETHER
 VAPOR DENSITY: 1.16 (AIR = 1)
 VAPOR PRESSURE: 25 MM HG @ 25° F
 WEIGHT PER GALLON: 7.9 LBS
 SOLUBILITY IN WATER: INFINITELY

25140-25147

25140

MATERIAL SAFETY DATA SHEET

PAGE 2

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Effective Date 3/14/91

* SECTION IV: FIRE AND EXPLOSION DATA *

FLASH POINT (TCC): GREATER THAN 167 DEGREES F

EXTINGUISHING MEDIA DRY CHEMICAL, CARBON DIOXIDE, WATER
SPRAY, FOAM, CLASS BC, ABC FIRE
EXTINGUISHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN; NOT
FLAMMABLE AT ROOM TEMPERATURE BUT WILL COMBUST IF INCLUDED IN
FIRE OF OTHER MATERIALS; AS WITH ALL ORGANIC MATERIALS,
INCOMPLETE COMBUSTION MAY GENERATE HIGHLY POISONOUS CARBON
MONOXIDE AND PERHAPS OTHER TOXIC VAPORS; OXIDES OF NITROGEN
AND SULFUR MAY ALSO BE PRODUCED

* SECTION V: REACTIVITY DATA *

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS

* SECTION VI: HEALTH HAZARD DATA *

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

EYES: CONTACT WITH EYES MAY BE IRRITATING
FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER. OBTAIN
EMERGENCY MEDICAL ATTENTION IF PAIN, BLINKING, TEARS
OR REDNESS PERSIST

SKIN: NOT EXPECTED TO PRESENT A SIGNIFICANT SKIN HAZARD
UNDER ANTICIPATED CONDITIONS OF NORMAL USE

INHALATION: MAY CAUSE DIZZINESS, DROWSINESS, HEADACHE,
NAUSEA AND VOMITING. IF VAPORS OR MIST
CAUSE IRRITATION OR DISTRESS, REMOVE TO
FRESH AIR.
GIVE OXYGEN OR APPLY ARTIFICIAL RESPIRATION
IF NEEDED.

25146

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Chromark Ink

Effective Date 3/14/91

PAGE 3

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INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY. IF LARGE QUANTITY SWALLOWED GIVE LUKEWARM WATER (PINT) IF VICTIM COMPLETELY CONSCIOUS/ALERT. DO NOT INDUCE VOMITING/RISK OF DAMAGE TO LUNGS EXCEEDS POISONING RISK. OBTAIN EMERGENCY MEDICAL ATTENTION

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE: CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE TO THIS PRODUCT HAVE NOT BEEN ESTABLISHED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

CARCINOGEN: THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY OSHA, NTP, OR IARC.

FOR ADDITIONAL MEDICAL INFORMATION, CALL 1-(303) 772-6934

* SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES *

SMALL SPILLS: SOAK UP WITH ABSORBENT, SHOVEL INTO WASTE CONTAINER, FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. MATERIAL COLLECTED WITH ABSORBENT MAY BE DISPOSED IN A PERMITTED LANDFILL IN ACCORDANCE WITH STATE, LOCAL, AND FEDERAL REGULATIONS. EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE. OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS CLEANED, RECONDITIONED, OR DESTROYED.

DILUTE AQUEOUS WASTE MAY BIODEGRADE. AVOID OVERLOADING/POISONING PLANT BIOMASS. ASSURE EFFLUENT COMPLIES WITH APPLICABLE REGULATIONS.

THIS PART IS
FOR CHROMARK WHEN
WE ARE MAKING THE
INK. SEE SECTION II

25140

MATERIAL SAFETY DATA SHEET

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* SECTION VIII: PROTECTIVE MEASURES *

EYE PROTECTION:

GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT MAY CAUSE DISCOMFORT, EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY

PROTECTIVE GLOVES:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING SHOULD BE NEEDED. USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR

RESPIRATORY PROTECTION:

IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS, AIR LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE VENTILATION ADEQUATE TO KEEP HAZARDOUS INGREDIENTS BELOW THEIR TLV (SEE SECTION II)

OTHER PROTECTIVE EQUIPMENT:

PROTECTIVE CLOTHING NOT NORMALLY NEEDED IN INTENDED USE; TAKE CARE TO PREVENT REPEATED OR PROLONGED CONTACT. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. EYE WASH STATION SHOULD BE NEAR WORK AREA.

* SECTION IX: SPECIAL PRECAUTIONS *

WASH THOROUGHLY AFTER HANDLING.
IF INGESTED, CALL A PHYSICIAN.
AVOID EYE CONTAMINATION
NO SIGNIFICANT HARMFUL ENVIRONMENTAL EFFECTS ARE KNOWN