

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Name: C-1544 NF Black

General Use: Marking Ink

Manufacturer: Chicago Ink & Research Co., Inc., 97 Ida Avenue, Antioch, IL 60002 **Phone:** 1-847-395-1078

24 hr. Emergency Telephone Number

Infotrac 1-800-535-5053

SECTION 2 - HAZARDS IDENTIFICATION

WARNING: FLAMMABLE



Risk Statements: Irritating to eyes, respiratory system, throat and skin.

Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. Harmful if swallowed – can cause nausea, vomiting and narcosis.

Safety Statements: Avoid contact with skin and eyes. Keep container tightly closed. Keep away from sources of ignition. No smoking!

Potential Health Effects:

High concentrations may cause nervous system disturbances and narcosis. Chronic: Excessive exposure may cause kidney, liver and possibly blood disturbances.

Emergency and First Aid Procedures:

INHALATION: Remove to fresh air, restore breathing. Treat symptoms. Consult a physician. **Eyes:** Flush immediately with water for 15 minutes. See a physician. **Skin:** Wash with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. **Ingestion:** Drink water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately.

SEE SECTIONS 8, 11 - The hazards are based on 100% of the contained materials. They may be reduced by their lower concentration.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	WEIGHT PERCENT
HEXYLENE GLYCOL	107-41-5	8
PROPYLENE GLYCOL MOMOMETHYL ETHER	107-98-2	24
2 ETHYL HEXANOL	104-76-7	8
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8	5

SECTION 4 - FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR, RESTORE BREATHING. TREAT SYMPTOMS. CONSULT A PHYSICIAN.

EYES: FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES. SEE A PHYSICIAN.

SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: DRINK WATER TO DILUTE, DO NOT INDUCE VOMITING. CONSULT A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES: WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT EXPLOSION WHEN EXPOSED TO EXTREME HEAT. FULL PROTECTIVE EQUIPMENT MAY BE NEEDED TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.

===== SECTION 6 – ACCIDENTAL RELEASE MEASURES =====

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE ALL SOURCES OF VAPOR IGNITION. VENTILATE AREA. AVOID BREATHING VAPORS. REMOVE BY SUITABLE INERT ABSORBING MATERIAL.

===== SECTION 7 – HANDLING & STORAGE =====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP CONTAINERS CLOSED WHEN NOT IN USE, AND KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID EXCESSIVE INHALATION OF VAPOR OR MIST.

OTHER PRECAUTIONS

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH CARE AND AVOID UNNECESSARY CONTACT. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY. HMIS PERSONAL PROTECTIVE EQUIPMENT IS DEPENDENT UPON CONDITIONS OF USE.

===== SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION =====

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS	
	OSHA PEL	ACGIH TLV
HEXYLENE GLYCOL	25 PPM	25 PPM
PROPYLENE GLYCOL MONOMETHYL ETHER	100	100
2 ETHYL HEXANOL	NDA	NDA
DIPROPYLENE GLYCOL MONOMETHYL ETHER	100 PPM	100 PPM

CONTROL MEASURES: GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED. HOWEVER, WHEN REQUIRED, ITS USE MUST BE IN COMPLIANCE WITH ALL OSHA HEALTH AND FIT TESTING REQUIREMENTS, AS GIVEN IN 29CFR 1910.134.

PROTECTIVE CLOTHING: USE OF RUBBER OR PLASTIC GLOVES RECOMMENDED FOR PROLONGED OR REPEATED CONTACT.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: USE PROTECTIVE CREAM WHEN SKIN CONTACT IS LIKELY.

EYE PROTECTION: SAFETY EYEWEAR SHOULD BE AVAILABLE TO AVOID ACCIDENTAL CONTACT

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, DRINKING OR SMOKING. NO SMOKING IN WORK AREA.

===== SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES =====

BOILING POINT: 248 to 385 DEG. F. **SPECIFIC GRAVITY (H₂O=1):** 1.02
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
MATERIAL V. O. C. : 5.54 LB/GL (664 G/L) **VAPOR PRESSURE:** 10.9 mm Hg @ 77 deg. F
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: COLORED LIQUID, MILD ALCOHOLIC ODOR
FLASH POINT: 130 Deg. F **METHOD USED:** SETAFLASH
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 0.9% **UPPER:** 13.9%

===== SECTION 10 – STABILITY AND REACTIVITY =====

STABILITY: STABLE **CONDITIONS TO AVOID:** HEAT, SPARKS AND OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID)
 CONTACT WITH STRONG ACIDS, ALKALIES OR OXIDIZERS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, AND OTHER HAZARDOUS DECOMPOSITION PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== **SECTION 11 – TOXICOLOGICAL INFORMATION** =====

INDIVIDUAL INGREDIENT HAZARDS

HEXYLENE GLYCOL - INGESTION: LD50, 4,700 MG/KG - RAT. SKIN ABSORPTION: LD50, 12,200 MG/KG - RABBIT. INHALATION: LC50, 760 PPM VAPOR, 1 HOUR - RAT.

2 ETHYL HEXANOL - INGESTION: LD50, 2,000–5,000 MG/KG. - RAT. SKIN ABSORPTION: LD50, 73,000 MG/KG. INHALATION: LC50, 1.2 MG/LITER - RAT.(6 HOURS)

PROPYLENE GLYCOL MONOMETHYL ETHER - INHALATION: LD50, 54.6 MG/L, 4 HOUR - RAT.

DIPROPYLENE GLYCOL MONOMETHYL ETHER - INGESTION: LD50, 5,135 MG/KG – RAT. SKIN ABSORPTION: NDA, INHALATION: NDA.

CARCINOGENICITY: NTP? NO? IARC MONOGRAPHS? NO OSHA REGULATED? NO
NONE CURRENTLY KNOWN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

RESPIRATORY IRRITATION, DERMITITIS AND NAUSEA.

===== **SECTION 12 – ECOLOGICAL INFORMATION** =====

NDA

===== **SECTION 13 – DISPOSAL INFORMATION** =====

WASTE DISPOSAL METHOD: INCINERATION IS PREFERRED, IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO SDS CAUTION INFORMATION BEFORE ATTEMPTING CLEANUP.

===== **SECTION 14 – TRANSPORTATION INFORMATION** =====

THE LISTED TRANSPORTATION INFORMATION APPLIES ONLY TO AIR SHIPMENTS. NOT HAZARDOUS IN GROUND SHIPPING.

DOT PROPER SHIPPING NAME: PRINTING INK

PACKING GROUP: II

DOT HAZARD CLASS: 3

DOT UN/NA NUMBER: UN 1210

HAZARD SUBCLASS: N/A

EMERGENCY RESPONSE GUIDE NO. 26

===== **SECTION 15 – REGULATORY INFORMATION** =====

TOXIC SUBSTANCES CONTROL ACT: ALL OF THE INGREDIENTS ARE LISTED IN THE TSCA INVENTORY.

SARA 313: NO TOXIC CHEMICAL(S) SUBJECT TO REPORTING REQUIREMENTS OF SEC. 313 OF TITLE III AND OF 40 CFR 372 ARE PRESENT.

===== **SECTION 16 – OTHER INFORMATION** =====

DISCLAIMER

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN WERE OBTAINED FROM SOURCES BELIEVED TO BE GENERALLY RELIABLE, BUT, WE MAKE NO WARRANTY CONCERNING THEIR ACCURACY OR SUFFICIENCY, AND WE WILL NOT BE HELD LIABLE FOR CLAIMS RELATING TO ANY PARTY'S USE OF OR RELIANCE ON INFORMATION OR RECOMMENDATIONS CONTAINED HEREIN.

DATE: 06/08/16

HMIS CODES: H-2, F-3, R-0, P-

LEGEND: NDA – NO DATA AVAILABLE N/D - NOT DETERMINED N/E – NOT ESTABLISHED