

MATERIAL SAFETY DATA SHEET

1100 Series Brown Colors

Page: 1

PRODUCT NAME: 1100 Series Brown Colors
PRODUCT CODE : 1112,1160,1164,1166,

HMIS CODES: H F R P
1 1 0 C

===== **SECTION I - MANUFACTURER IDENTIFICATION** =====

MANUFACTURER'S NAME: Triangle Ink Co., Inc.
ADDRESS : 53-57 Van Dyke Street
Wallington, NJ 07057

EMERGENCY PHONE : 800-429-9300 (CHEMTREC) DATE PRINTED : 09/16/2004
INTRNATIONAL : 703-527-3887
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===== **SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION** =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE MM HG @ TEMP	WEIGHT PERCENT
Mixture of 1,2-BENZENEDICARBOLIC ACID ESTERS	N/A	0.30000 356	15.0 – 40.0
Ethene, chloro-, homopolymer	9002-86-2	0.00000 0.00000	10.0 – 30.0
Calcium Carbonate ACGIH TLV: 10mg/M3 Silica, Quartz TLV 0.1 Mg/M (respirable dust)	1317-65-3	0.00000 0.00000	3.0 – 7.0
Titanium Dioxide (80% by weight) OSHA PEL: 10 mg/m3	13463-67-7	0.00000 0.00000	15.0 - .40.0
Proprietary mix. Contains 30-40% Dinonyl Phthalate OSHA PEL: 5mg/m3, ACGIH TLV: 10mg/m3	MIXTURE	0.00000 0.00000	3.0 – 7.0
Precipitated Calcium Carbonate, HO M-60 OSHA PEL: 15mg/m3, ACGIH TLV: 10mg/m3	471-34-1	0.00000 0.00000	7.0 – 13.0
Pigment Yellow 83	5567-15-7	0.00000 0.00000	0.5 – 1.5
Carbon Black pigment	1333-86-4	0.00000 0.00000	0.1 – 1.0

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

WARNING: DETECTABLE AMOUNTS OF A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM MAY BE PRESENT IN THIS PRODUCT.

===== **SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS** =====

BOILING RANGE: 395 TO 440 DEG F SPECIFIC GRAVITY (H2O=1): 1.29
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
MATERIAL V.O.C.: . lb/gl
SOLUBILITY IN WATER: Non Soluble
APPEARANCE AND ODOR: BROWN PASTE AND CHARACTERISTIC ODOR.

MATERIAL SAFETY DATA SHEET

1100 Series Brown Colors

Page: 2

===== **SECTION IV - FIRE AND EXPLOSION HAZARD DATA** =====

FLASH POINT: 248 deg F **METHOD USED:** PMCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES
USE SELF CONTAINED BREATHING APPARATUS, AND SUITABLE PROTECTIVE CLOTHING.

UNUSUAL FIRE AND EXPLOSION HAZARDS
MATERIAL WILL BURN, BUT WILL NOT IGNITE READILY. COOLING REQUIRED TO PREVENT EXPLOSION IN THE HEAT OF FIRE.

===== **SECTION V - REACTIVITY DATA** =====

STABILITY: STABLE

CONDITIONS TO AVOID
HIGH TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID)
NONE KNOWN.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
MAY YIELD CARBON DIOXIDE BY THERMAL DECOMPOSITION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== **SECTION VI - HEALTH HAZARD DATA** =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
IF BREATHING DIFFICULTIES, DIZZINESS OR LIGHTHEADEDNESS OCCURS WHEN WORKING WITH HIGH VAPOR CONCENTRATION, VICTIM SHOULD SEEK FRESH AIR. IF BREATHING STOPS BEGIN ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
MAY CAUSE ITCHING OF SKIN AND TEARING OF EYES.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
IF THIS PRODUCT IS SWALLOWED, INDUCE VOMITING, ONLY IF VICTIM IS ALERT. IMMEDIATELY SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON.

HEALTH HAZARDS (ACUTE AND CHRONIC)
Inhalation-Dizziness, breathing difficulty, headaches, and loss of coordination. Eye contact-Severe irritation, tearing, redness, and blurred vision. Skin contact-Can dry and defat skin causing cracks, irritation, and dermatitis. Ingestion-Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea. No chronic health effects.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED:
Yes

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
ASTHMATIC AILMENTS, SKIN DISORDERS

MATERIAL SAFETY DATA SHEET

1100 Series Brown Colors

Page: 3

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: MOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT: WASH WITH SOAP AND LARGE AMOUNT OF WATER.

EYE CONTACT: FLUSH WITH LARGE AMOUNT OF WATER UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, SEEK MEDICAL HELP.

INGESTION: IF SWALLOWED, INDUCE VOMITING, BUT ONLY IF VICTIM IS ALERT. GET PROMPT MEDICAL ATTENTION. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO A DROWSY OR UNCONCIOUS PERSON.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

MATERIAL SHOULD BE GATHERED BY SCOOPING INTO CONTAINERS. PREVENT FROM ENTERING SEWERS OR OTHER DRAINAGE.

WASTE DISPOSAL METHOD

COLLECT ABSORBENT/SPILLED MATERIAL IN METAL CONTAINERS. PREFERRED DISPOSAL IS TO HARDEN BY HEATING TO 300°F BEFORE COMMITTING TO APPROVED LANDFILL. CONSULT WITH LOCAL, STATE 7 FEDERAL HAZARDOUS WASTE DISPOSAL REGULATIONS..

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN COOL AREA TO PREVENT HARDENING.

OTHER PRECAUTIONS

NONE.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION. ABOVE THE TIME WEIGHTED TLV, USE NIOSH APPROVED CARTRIDGE RESPIRATOR OR GAS MASK.

VENTILATION

GENERAL MECHANICAL VENTILATION SHOULD BE SUFFICIENT TO KEEP RELEASES WITHIN SPECIFIED TIME WEIGHTED TLV RANGE.

PROTECTIVE GLOVES

THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION.

EYE PROTECTION

SAFETY GLASSES, CHEMICAL GOGGLES AND OR FACE SHIELDS ARE RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

SKIN PROTECTIVE CLOTHING MUST BE WORN.

WORK/HYGIENIC PRACTICES

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

===== SECTION IX - DISCLAIMER =====

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