

MATERIAL SAFETY DATA SHEET

SECTION 1:  
MANUFACTURER

SPECIALTY INK CO. INC.  
20 DUNTON AVE  
PO BOX R  
DEER PARK, N.Y. 11729  
EMERGENCY PHONE 516-586-3666  
FAX NUMBER 516-586-3874

INK NAME: MARK II REACT.

DATE PREPARED  
08/16/93

|                      |   |       |            |
|----------------------|---|-------|------------|
| HEALTH:              | 2 | CODE: | 0=MINIMAL  |
| FLAMMABILITY:        | 3 |       | 1=SLIGHT   |
| REACTIVITY:          | 0 |       | 2=MODERATE |
| PERSONAL PROTECTION: | B |       | 3=SERIOUS  |
|                      |   |       | 4=SEVERE   |

SECTION 2: HAZARDOUS INGREDIENTS

| INGREDIENT         | PERCENT | ACGIH-TLV | OSHA-FEL | CAS NO   |
|--------------------|---------|-----------|----------|----------|
| METHYL CELLOSOLVE* | 50.00   | 5 PPM     | 25 PPM   | 109-86-4 |
| ETHYL ALCOHOL      | 50.00   | 1000 PPM  | 1000 PPM | 64-17-5  |

\* = THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

THIS PRODUCT IS IN COMPLIANCE WITH THE EPA TSCA INVENTORY.

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: 216 F  
 MELTING POINT: -121 F  
 VAPOR DENSITY: 2.11  
 SPECIFIC GRAVITY: .8889  
 REACTIVITY IN WATER: NONE  
 SOLUBILITY IN WATER: SOLUBLE, VOC: 57.64 GMS/L  
 AUTO IGNITION: 750 F  
 VAPOR PRESSURE: 2 MM HG  
 APPEARANCE & ODOR: CLEAR, MOBILE LIQUID  
 APPEARANCE & ODOR: MILD ODOR  
 LEL/UEL %: 4.3 18.8  
 FLASH POINT: 77 F  
 METHOD: CLOSED CUP

SECTION 4: FIRE & EXPLOSION DATA

EXTINGUISHING MEDIA: CARBON DIOXIDE  
 EXTINGUISHING MEDIA: DRY CHEMICAL  
 EXTINGUISHING MEDIA: ALCOHOL FOAM  
 EXTINGUISHING MEDIA: UNIVERSAL-TYPE FOAM  
 EXTINGUISHING MEDIA: WATERSPRAY  
 SPECIAL FIRE PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS  
 SPECIAL FIRE PROCEDURES: WEAR PROTECTIVE CLOTHING AND EQUIPMENT  
 SPECIAL FIRE PROCEDURES: USE WATERSPRAY TO COOL FIRE-EXPOSED AREA  
 SPECIAL FIRE PROCEDURES: USE WATERSPRAY TO PROTECT PERSONNEL  
 UNUSUAL HAZARDS: WEAR FACE SHIELD TO PROTECT FACE AND  
 UNUSUAL HAZARDS: EYES FROM CONTACT WITH LIQUID OR VAPOR.

SECTION 5: REACTIVITY DATA

STABLE, Y=YES, N=NO : Y

## SECTION 5: REACTIVITY DATA

CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAME  
 INCOMPATIBILITY: STRONG OXIDIZING AGENTS  
 HAZARDOUS DECOMPOSITION: BURNING WILL PRODUCE CO2 AND PROBABLY CO  
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
 CONDITIONS TO AVOID: NONE

## SECTION 6: HEALTH HAZARDS

ACUTE: HEADACHE, NAUSEA, VOMITING  
 CHRONIC: SKIN AND EYE IRRITANT  
 CHRONIC: KIDNEY DAMAGE IF SWALLOWED  
 SIGNS & SYMPTOMS OF EXPOSURE: HEADACHE, NAUSEA, VOMITING  
 SIGNS & SYMPTOMS OF EXPOSURE: DIZZINESS, DROWSINESS, FATIGUE  
 SIGNS & SYMPTOMS OF EXPOSURE: LOSS OF COORDINATION, TREMORS  
 SIGNS & SYMPTOMS OF EXPOSURE: LOSS OF APPETITE  
 MEDICAL CONDITIONS AGGRAVATED: IN LABORATORY INHALATION STUDIES WITH  
 MEDICAL CONDITIONS AGGRAVATED: RABBITS, METHYL CELLOSOLVE HAS CAUSED  
 MEDICAL CONDITIONS AGGRAVATED: BIRTH DEFECTS IN FEMALES & REPRODUCTIVE  
 MEDICAL CONDITIONS AGGRAVATED: PROBLEMS IN MALES; NO HUMAN RESULTS CITED  
 CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: \*\*\*  
 NATIONAL TOXICOLOGY PROGRAM, Y=YES, N=NO: N  
 IARC MONOGRAPHS, Y=YES, N=NO: N  
 OSHA, Y=YES, N=NO: N  
 FIRST AID FOR INHALATION: REMOVE TO FRESH AIR IF OVERCOME BY VAPOR  
 FIRST AID FOR EYES: IRRIGATE WITH CLEAN WATER FOR 15 MINUTES  
 FIRST AID FOR SKIN: WASH WITH SOAP AND WATER; CHANGE CLOTHING  
 FIRST AID FOR INGESTION: GIVE TWO GLASSES OF LUKEWARM WATER  
 FIRST AID FOR INGESTION: INDUCE VOMITING; GET MEDICAL ATTENTION  
 ROUTES OF ENTRY FOR INHALATION: AVOID PROLONGED BREATHING OF VAPORS  
 ROUTES OF ENTRY FOR EYES: AVOID ALL CONTACT WITH THE EYES  
 ROUTES OF ENTRY FOR SKIN: AVOID REPEATED OR PROLONGED SKIN CONTACT  
 ROUTES OF ENTRY FOR INGESTION: DO NOT TAKE INTERNALLY

## SECTION 7: SPECIAL PRECAUTIONS &amp; SPILL/LEAK PROCEDURES

HANDLING & STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE  
 HANDLING & STORAGE: USE ONLY WITH ADEQUATE VENTILATION  
 HANDLING & STORAGE: KEEP AWAY FROM HEAT, SPARKS & OPEN FLAME  
 HANDLING & STORAGE: AVOID PROLONGED BREATHING OF VAPORS  
 STEPS IF SPILLED: ELIMINATE SOURCES OF IGNITION; VENTILATE  
 STEPS IF SPILLED: CONTAIN & COVER SPILL WITH AN ABSORBENT  
 STEPS IF SPILLED: COLLECT & DISPOSE IN CHEMICAL WASTE DRUM  
 STEPS IF SPILLED: DO NOT ALLOW SPILL TO ENTER WATERWAYS  
 WASTE DISPOSAL: INCINERATE IN CHEMICAL FURNACE  
 WASTE DISPOSAL: MUST CONFORM TO LOCAL, STATE & FEDERAL REGULATIONS

## SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: GENERAL ROOM VENTILATION IS SATISFACTORY  
 VENTILATION: PROVIDE ADEQUATE CROSS AIR CIRCULATION  
 LOCAL EXHAUST: PREFERABLE  
 MECHANICAL: ACCEPTABLE  
 SPECIAL: NIOSH APPROVED ORGANIC VAPOR RESPIRATOR  
 PROTECTIVE GLOVES: CHEMICAL IMPERVIOUS  
 EYE PROTECTION: SPLASH GLASSES  
 OTHER PROTECTION: EYEWASH STATION  
 WORK/HYGENIC PRACTICES: THIS PRODUCT SHOULD NOT BE USED BY PREGNANT WOMEN.

## SPECIAL MESSAGE SECTION

THE HAZARDS LISTED ON THIS MSDS ARE TAKEN FROM THE MSDS FOR EACH OF THE INGREDIENTS IN THIS MIXTURE. IN MOST CASES, THE MAXIMUM FORM OF HAZARD IS REPRESENTED HERE. THE TLV'S REPRESENT THE CONDITIONS UNDER WHICH IT IS BELIEVED THAT NEARLY ALL WORKERS MAY BE REPEATEDLY EXPOSED DAY AFTER DAY WITHOUT ADVERSE EFFECT. IT MUST BE REMEMBERED THAT EACH INDIVIDUAL REACTS DIFFERENTLY AND SOME MAY EXPERIENCE DISCOMFORT WHILE OTHERS DO NOT. THIS MSDS IS PRESENTED SO THAT EACH INDIVIDUAL WILL HAVE THE INFORMATION TO DEAL SAFELY WITH THE USE OF THIS PRODUCT. ALL MATERIALS TSCA LISTED.

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## DISCLAIMER SECTION

## DISCLAIMER OF LIABILITY:

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PREPARED BY: ALLEN WERWA, Safety Director 03/03/94