

SECTION 1:
MANUFACTURER

MATERIAL SAFETY DATA SHEET
SPECIALTY INK CO., INC.
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DEER PARK, NY 11729
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INK NAME: 476 INK

DATE PREPARED
07/11/06

HEALTH: 2
FLAMMABILITY: 2
REACTIVITY: 0
PERSONAL PROTECTION: B

CODE: 0=MINIMAL
1=SLIGHT
2=MODERATE
3=SERIOUS
4=SEVERE

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	ACGIH-TLV	OSHA-PEL	CAS NO
DIMETHYL FORMAMIDE	90.00	10 PPM	20 PPM	68-12-2

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: 307 F
MELTING POINT: -78 F
VAPOR DENSITY: 2.5
SPECIFIC GRAVITY: 0.94
REACTIVITY IN WATER: NONE
SOLUBILITY IN WATER: INSOLUBLE
AUTO IGNITION: 833 F
VAPOR PRESSURE: 3.7 MM HG
APPEARANCE & ODOR: VOC: 59.44 GMS/L
APPEARANCE & ODOR: AMINE (FISHY) ODOR
LEL/UEL %: 2.2 15.2
FLASH POINT: 136 F
METHOD: CLOSED CUP

SECTION 4: FIRE & EXPLOSION DATA

EXTINGUISHING MEDIA: CARBON DIOXIDE
EXTINGUISHING MEDIA: DRY CHEMICAL
EXTINGUISHING MEDIA: ALCOHOL FOAM
EXTINGUISHING MEDIA: UNIVERSAL 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 SUITABLE EYE PROTECTION TO PREVENT
UNUSUAL HAZARDS: EYE CONTACT.

SECTION 5: REACTIVITY DATA

STABLE, Y=YES, N=NO : Y
CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAME
INCOMPATIBILITY: STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION: CO AND CO2 EMITTED WHEN BURNED

SECTION 5: REACTIVITY DATA

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NONE

SECTION 6: HEALTH HAZARDS

ACUTE: NAUSEA, ABDOMINAL CRAMPS

CHRONIC: SKIN IRRITATION

CHRONIC: IRRITANT TO DIGESTIVE TRACT

SIGNS & SYMPTOMS OF EXPOSURE: IRRITATION OF SKIN, EYES, NOSE & THROAT

SIGNS & SYMPTOMS OF EXPOSURE: INGESTION WILL CAUSE LIVER DAMAGE

SIGNS & SYMPTOMS OF EXPOSURE: INGESTION WILL CAUSE KIDNEY DAMAGE

MEDICAL CONDITIONS AGGRAVATED: EXPOSURE AFTER DRINKING ALCOHOLIC

MEDICAL CONDITIONS AGGRAVATED: BEVERAGES MAY PRODUCE REDDENING OF

MEDICAL CONDITIONS AGGRAVATED: THE SKIN OF THE FACE AND NECK.

IS 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: INDUCE VOMITING

FIRST AID FOR INGESTION: CALL A PHYSICIAN

ROUTES OF ENTRY FOR INHALATION: AVOID BREATHING VAPORS

ROUTES OF ENTRY FOR EYES: AVOID EYE CONTACT

ROUTES OF ENTRY FOR SKIN: AVOID SKIN CONTACT. MAJOR ROUTE OF ENTRY

ROUTES OF ENTRY FOR INGESTION: DO NOT TAKE INTERNALLY

SECTION 7: SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES

HANDLING & STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE

HANDLING & STORAGE: USE ONLY WITH ADEQUATE VENTILATION

HANDLING & STORAGE: AVOID CONTACT WITH SKIN, EYES & CLOTHING

HANDLING & STORAGE: WASH THOROUGHLY AFTER USING

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 RESPIRATOR FOR HIGH VAPOR

PROTECTIVE GLOVES: BUTYL RUBBER GLOVES

EYE PROTECTION: SPLASH GLASSES

OTHER PROTECTION: EYEWASH STATION

WORK/HYGENIC PRACTICES: PRACTICE REASONABLE CARE & CAUTION WHEN USING INK.

SPECIAL MESSAGE SECTION

THE HAZARDS LISTED ON THIS MSDS ARE

SPECIAL MESSAGE SECTION

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.

DISCLAIMER SECTION

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PREPARED BY: ALLEN WERWA, Safety Director 03/05/07