

SECTION 1:  
MANUFACTURER

MATERIAL SAFETY DATA SHEET  
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INK NAME: INDELIBLE INK

DATE PREPARED  
03/08/05

HEALTH:	1	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-PEL	CAS NO
ETHYL ALCOHOL	15.00	1000 PPM	1000 PPM	64-17-5
CELLOSOLVE SOLVENT	50.00	5 PPM	200 PPM	110-80-5

## SECTION 3: PHYSICAL &amp; CHEMICAL CHARACTERISTICS

BOILING POINT: 289 F  
MELTING POINT: -173 F  
VAPOR DENSITY: 3.8  
SPECIFIC GRAVITY: .9304  
REACTIVITY IN WATER: NONE  
SOLUBILITY IN WATER: SLIGHT  
AUTO IGNITION: 750 F  
VAPOR PRESSURE: 2 MM HG  
APPEARANCE & ODOR: MOBILE LIQUID, MILD ODOR  
APPEARANCE & ODOR: VOC: 32.38 GMS/L  
LEL/UEL %: 1.5 11.1  
FLASH POINT: 56 F  
METHOD: CLOSED CUP

## SECTION 4: FIRE &amp; 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 FACE SHIELD TO PROTECT FACE AND  
UNUSUAL HAZARDS: EYES FROM LIQUID OR VAPOR.

## SECTION 5: REACTIVITY DATA

STABLE, Y=YES, N=NO : Y  
CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAME  
INCOMPATIBILITY: IGNITION SOURCES

## SECTION 5: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: BURNING WILL PRODUCE CO2 AND PROBABLY CO  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: NONE

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## SECTION 6: HEALTH HAZARDS

ACUTE: HEADACHE, DIZZINESS, NAUSEA

CHRONIC: DERMATITIS

CHRONIC: CENTRAL NERVOUS SYSTEM DEPRESSION

SIGNS & SYMPTOMS OF EXPOSURE: HEADACHE, DIZZINESS, NAUSEA

SIGNS & SYMPTOMS OF EXPOSURE: IRRITATION TO EYES, NOSE AND THROAT

SIGNS & SYMPTOMS OF EXPOSURE: SKIN IRRITATION FROM REPEATED USE

SIGNS & SYMPTOMS OF EXPOSURE: IRRITATION OF MUCOUS MEMBRANE

MEDICAL CONDITIONS AGGRAVATED: IN LABORATORY INHALATION STUDIES WITH

MEDICAL CONDITIONS AGGRAVATED: ANIMALS, CELLOSOLVE SOLVENT HAS CAUSED

MEDICAL CONDITIONS AGGRAVATED: BIRTH DEFECTS IN FEMALES & REPRODUCTIVE

MEDICAL CONDITIONS AGGRAVATED: PROBLEMS IN MALES; NO HUMAN RESULTS CITED

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: FLUSH WITH CLEAN WATER FOR 15 MINUTES

FIRST AID FOR SKIN: WASH WITH SOAP & 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

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## 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 AND OPEN FLAME

HANDLING & STORAGE: DO NOT CONTINUALLY BREATHE 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

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## SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: GENERAL ROOM VENTILATION ADEQUATE

VENTILATION: PROVIDE ADEQUATE CROSS AIR CIRCULATION

LOCAL EXHAUST: PREFERABLE

MECHANICAL: ACCEPTABLE

SPECIAL: NIOSH APPROVED RESPIRATOR WHEN NECESSARY

PROTECTIVE GLOVES: CHEMICAL IMPERVIOUS

EYE PROTECTION: SPLASH GLASSES

OTHER PROTECTION: EYEWASH STATION

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

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## 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

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PREPARED BY: ALLEN WERWA, Safety Director 01/17/06