

MATERIAL SAFETY DATA SHEET
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YELLOW SLINK INK
REVISED: 03/13/2006

SECTION 1:

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

SECTION 2: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>ACGIH-TLV</u>	<u>OSHA-PEL</u>	<u>CAS NO.</u>
PIGMENT FOR COLOR	45.0%			
LEAD FROM PIGMENT	11.0%	.05PPM	.05PPM	7439-92-1
CHROMIUM	4.0%	.012PPM	.012PPM	7440-42-3
SHELLAC	25.0%	NOT EST.	NOT EST.	9000-59-3
ETHYL ALCOHOL	25.0%	1000PPM	1000PPM	64-17-5
CELLOSOLVE SOLVENT*	5.0%	5PPM	200PPM	110-80-5

*IF 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 AND CHEMICAL CHARACTERISTICS

BOILING POINT:	302F
MELTING POINT:	-121F
VAPOR DENSITY:	4.0
SPECIFIC GRAVITY:	.9605
REACTIVITY IN WATER:	NONE
SOLUBILITY IN WATER:	NEGLIGIBLE
AUTO IGNITION:	545F
VAPOR PRESSURE:	2MM HG
APPEARANCE & ODOR:	MOBILE LIQUID
APPEARANCE & ODOR:	MILD ODOR
LEL / UEL %:	2.0% / 11.1%
FLASH POINT:	100F
METHOD:	CLOSED CUP

SECTION 4: FIRE & EXPLOSION DATA

EXTINGUISHING MEDIA: CARBON DIOXIDE
EXTINGUISHING MEDIA: DRY CHEMICAL
EXTINGUISHING MEDIA: ALCOHOL RESISTANT 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 PROTECT PERSONNEL
UNUSUAL HAZARDS: WEAR FACE SHIELD TO PROTECT FACE AND EYES FROM CONTACT WITH LIQUID OR VAPOR

SECTION 5: REACTIVITY DATA

STABLE: YES
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: LIVER AND KIDNEY INJURY BY EXCESSIVE VAPOR
SIGNS AND SYMPTOMS OF EXPOSURE: HEADACHE, NAUSEA, VOMITING
SIGNS AND SYMPTOMS OF EXPOSURE: BREATHING DIFFICULTIES, IRRITATION TO RESPIRATORY TRACT, WEAKNESS
SIGNS AND SYMPTOMS OF EXPOSURE: IRRITATION TO EYES, NOSE AND SKIN
MEDICAL CONDITIONS AGGRAVATED: IN LAB INHALATION STUDIES WITH ANIMALS, CELLOSOLVE SOLVENT HAS CAUSED BIRTH DEFECTS IN FEMALES AND REPRODUCTIVE PROBLEMS IN MALES. DO NOT USE DURING PREGNANCY.
IS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN?
NATIONAL TOXICOLOGY PROGRAM: NO
IARC MONOGRAPHS: NO
OSHA: NO
FIRST AID FOR INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR
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, INDUCE VOMITING, CALL DOCTOR
ROUTE OF ENTRY FOR INHALATION: AVOID PROLONGED BREATHING OF VAPORS
ROUTE OF ENTRY FOR EYES: AVOID ALL CONTACT WITH THE EYES
ROUTE OF ENTRY FOR SKIN: AVOID REPEATED OR PROLONGED SKIN CONTACT
ROUTE OF ENTRY FOR INGESTION: DO NOT TAKE INTERNALLY

SECTION 7: SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

HANDLING & STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE
HANDLING & STORAGE: USE ONLY WITH ADEQUATE VENTILATION
HANDLING & STORAGE: DO NOT REPEATEDLY BREATHE VAPOR
HANDLING & STORAGE: KEEP AWAY FROM HEAT AND FLAME
STEPS IF SPILLED: REMOVE SOURCES OF IGNITION, VENTILATE
STEPS IF SPILLED: COVER SPILL WITH A SUITABLE ABSORBENT, SWEEP UP AND PUT IN CHEMICAL WASTE DRUM
STEPS IF SPILLED: DO NOT ALLOW SPILL TO ENTER WATERCOURSES
WASTE DISPOSAL: INCINERATE IN CHEMICAL FURNACE
WASTE DISPOSAL: MUST CONFORM TO LOCAL, STATE AND 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 WHEN NECESSARY
PROTECTIVE GLOVES: CHEMICAL RESISTANT
EYE PROTECTION: SPLASH GLASSES
OTHER PROTECTION: EYE WASH STATION
WORK / HYGIENIC 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.

DISCLAIMER SECTION

DISCLAIMER OF LIABILITY: AS THE CONDITIONS OR METHODS OF USE ARE BEYOND OUR CONTROL. WE DO NOT ASSUME ANY RESPONSIBILITY AND EXPRESSLY DISCLAIM ALL LIABILITY FOR ANY USE OF THIS MATERIAL. INFORMATION CONTAINED HEREBY IS GIVEN IN GOOD FAITH AND BELIEVED TO BE TRUE AND ACCURATE. BUT ALL STATEMENTS OR SUGGESTIONS ARE MADE WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED. REGARDING THE ACCURACY OF THE INFORMATION. THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL OR RESULTS TO BE OBTAINED FROM THE USE THEREOF. INFORMATION ON MSDS SUPPLIED BY INK MFG. PREPARED BY: ALLEN WERWA. SAFETY DIRECTOR 02/18/97