

MATERIAL SAFETY DATA SHEET

#2000 SOLVENT
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IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

SECTION I - GENERAL INFORMATION

24 HOUR EMERGENCY TELEPHONE NUMBER: 800-424-9300

INTERNATIONAL EMERGENCY TELEPHONE NUMBER: 703-527-3887

GENERIC NAME: Ink Solvent
CHEMICAL FAMILY: Esters/Alcohol
CAS NO.: NOT AVAILABLE (MIXTURE)
DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME: Flammable Liquid, N.O.S.
DOT HAZARD 3
CLASS: RQ, Ethyl Acetate, 3, UN1173, II, Limited Quantity
UN/NA ID NO.: UN 1173
HMIS CODES: 1H, 3F, 0R

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS NUMBER	PERCENT AGE	OCCUPATIONAL EXPOSURE LIMITS
*Ethyl Acetate	141-78-6	100	400 PPM TWA OSHA & ACGIH

*INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

SECTION III - PHYSICAL DATA

BOILING POINT: 76.5°C (169.7°F)
FREEZING POINT: -82.4°C (-116.3°F)
SPECIFIC GRAVITY (H₂O=1) 0.902 (water = 1)
VAPOR PRESSURE AT 20°C: 9.7 kPa
VAPOR DENSITY(AIR=1): 3.
SOLUBILITY IN WATER: Partially soluble in cold water.
EVAPORATION RATE (Butyl Acetate=1): 4.2
APPEARANCE AND ODOR: Liquid. Fruity. Colorless. Clear.
VISCOSITY: Kinematic: 0.51cSt @20 °C

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 26.6°F (-3°C), Tag Closed Cup
FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER: 2.2% UPPER: 11%
EXTINGUISHING MEDIA: Apply alcohol-type or all-purpose-type foams by manufacturer's recommended techniques for large fires. Use CO₂ or dry chemical media for small fires.
PRODUCTS OF COMBUSTION: carbon oxides, CO, CO₂
UNUSUAL FIRE AND EXPLOSION HAZARDS: Highly flammable liquid and vapor. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Runoff to sewer may create fire or explosion hazard.
SPECIAL FIREFIGHTING PROCEDURES: Flammable liquid, soluble or dispersed in water. Small Fire: Use DRY chemical power. Large Fire: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Use self-contained breathing apparatus and protective clothing.

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SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures. Avoid all possible sources of ignition (spark or flame).

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids, strong alkalis, strong oxidizing materials.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon oxides (CO, CO₂)

SECTION VI - HEALTH HAZARD DATA

EYES: Causes eye irritation.

SKIN: Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Harmful on prolonged exposure.

INHALATION: Inhalation causes headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.

INGESTION: Ingestion may cause nausea, weakness and central nervous system effects.

SECTION VII – FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN CONTACT: Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION VIII – ACCIDENTAL RELEASE MEASURES

LARGE SPILL AND LEAK: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent materials (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Please spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

SECTION IX- PRECAUTIONS FOR SAFE HANDLING AND USE

HANDLING: Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring materials. Use explosion-proof electrical (ventilation, lighting and material handling) equipment.

STORAGE: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

SECTION X- EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations

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and safety showers are proximal to the work-station location.

EYES: Avoid contact with eyes. Chemical splash goggles.

SKIN and BODY: Avoid contact with skin. Wear clothing and footwear that cannot be penetrated by chemicals or oil.

RESPIRATORY: Use only with adequate ventilation. Avoid breathing vapor or mist. If ventilation is inadequate, use certified respirator that will protect against organic vapor.

HANDS: Wear gloves that cannot be penetrated by chemicals or oil (butyl rubber gloves).

SECTION XI- TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Acute oral toxicity (LD50)	5620mg/kg (RAT)
	Acute dermal toxicity (LD50)	> 18000mg/kg(Rabbit)
	Acute toxicity of the vapor (LC50)	56 mg/l 4 hours (Rat)

CHRONIC TOXICITY: CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

SECTION XII- DISPOSAL CONSIDERATIONS

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

SECTION X - REGULATORY INFORMATION

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III TOXIC CHEMICAL(S)

SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

CHEMICAL	CAS NUMBER
*Ethyl Acetate	141-78-6

DISCLAIMER OF LIABILITY

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