

MATERIAL SAFETY DATA SHEET

Pre-Ink Gels (all colors)

DATE OF PREPARATION: January 1, 2001

REVISION: 00000

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT/CHEMICAL NAME:
GENERAL USE: Stamping product.
MANUFACTURER:
EMERGENCY TELEPHONE NUMBER:

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	ACGIH TWA	OSHA PEL EXPOSURE LIMITS
2-ethyl 1,3 hexane diol	94-96-2	None listed.	None listed.
Diethylene Glycol	111-46-6	None listed.	None listed.
Alkyl benzyl phthalate	16883-83-3	None listed.	None listed.
Diazo dyes	* see below	None listed.	None listed.

* diazo dye / phenylazo-n-phenylazo-phenyl-benzamide, various alkyl derivatives.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

INHALATION: Room temperature vapors are minimal. Inhalation of misted form may cause respiratory tract irritation or other physiological effects.

EYE: May cause severe irritation.

SKIN: May cause irritation or dermatitis.

INGESTION: Small amounts swallowed are not likely to cause serious injury. Large amounts may cause digestive tract irritation, central nervous system depression, kidney and liver damage.

MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: Skin allergies, asthma, bronchitis and emphysema in susceptible individuals.

CHRONIC EFFECTS OF OVEREXPOSURE: Repeated skin contact may cause sensitization in some individuals.

To help protect against expected or unforeseen irritations / reactions, wear all properly selected clothing and protective equipment as instructed in Section 8.

SECTION 4 - FIRST AID MEASURES

INHALATION: If coughing, irritation or tightness in the chest is experienced, remove to fresh air. Get medical attention if symptoms persist. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

EYE CONTACT: Immediately wash the eyes with copious amounts of water, occasionally lifting the lower and upper eyelids. Continue for 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT: In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if rash develops. Launder contaminated clothing before reuse.

INGESTION: If victim is conscious and alert, give 2 - 4 cupfuls of water and immediately induce vomiting. Never give anything by mouth to an unconscious person. Contact physician immediately.

After first aid, get appropriate in-plant, paramedic, or community medical support.

SECTION 5 - FIRE-FIGHTING MEASURES**FLASH POINT:** >300 °F (149°C)**POINT METHOD:** Pensky-Martens Closed Cup**FLAMMABILITY CLASSIFICATION:** Non-Flammable**EXTINGUISHING MEDIA:** Dry Chemical, and Carbon Dioxide Foam**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Could generate carbon monoxide and carbon dioxide quickly. Keep containers cooled with water.**FIRE-FIGHTING INSTRUCTIONS:** Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways. Remove sources of ignition and provide ventilation.**FIRE-FIGHTING EQUIPMENT:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode. Wear protective clothing to prevent contact with skin and eyes.**SECTION 6 - ACCIDENTAL RELEASE MEASURES****SPILL /LEAK PROCEDURES:** Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely. Do not allow to enter waterways**REGULATORY REQUIREMENTS:** Follow applicable OSHA regulations (29 CFR 1910.120).**SECTION 7 - HANDLING AND STORAGE****HANDLING PRECAUTIONS:** Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Use good general housekeeping procedures.**STORAGE REQUIREMENTS:** Store in cool dry, well-ventilated area away from sunlight. Protect from freezing during shipping.**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS****VENTILATION:** Provide general or local exhaust ventilation systems. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.**RESPIRATORY PROTECTION:** Respiratory protection is not required under normal conditions of general or local ventilation. If respirators are used, seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.133) and, if necessary, wear MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.**PROTECTIVE CLOTHING/EQUIPMENT:** Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.**COMMENTS:** Emergency showers and eyewash stations should be made available. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL STATE:** Viscous Liquid**APPEARANCE :** Pigmented**ODOR :** Sweet odor**VAPOR PRESSURE:** <0.1MM @ 200°F (93.3°C)**VAPOR DENSITY (AIR=1):** Not Applicable**SPECIFIC GRAVITY (25 °C):** 1.1**WATER SOLUBILITY:** Insoluble**BOILING POINT:** Not Applicable**FREEZING/MELTING POINT:** None Determined**VISCOSITY (25 °C):** 3000 centipoise**EVAPORATION RATE:** < butyl acetate

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: This product is stable at room temperature in closed containers under normal storage and handling conditions.

POLYMERIZATION: Hazardous polymerization can not occur.

CHEMICAL INCOMPATIBILITIES: Strong acids, bases, oxidizers and reducing agents.

CONDITIONS TO AVOID: Extremely low or high temperatures; open flames.

THERMAL DECOMPOSITION PRODUCTS: May generate toxic or irritating combustion products such as : carbon monoxide, carbon dioxide, hydrogen chloride, and acetic acid fumes.

SECTION 11- TOXICOLOGICAL INFORMATION**ACUTE INHALATION EFFECTS:**

Human, inhalation, TC_L: Not Determined

ACUTE ORAL EFFECTS: Not Determined

REPRODUCTIVE TOXICITY: None established

MUTAGENICITY: None Established

TERATOGENICITY: None Established

SENSITIZATION: None Established

This product is a mixture for which no health data exists. The hazards associated with this mixture are based upon the individual hazards of it's constituents.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY: None Established

ENVIRONMENTAL FATE: None Established

SOIL ABSORPTION/MOBILITY: None Established.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: This material must be disposed of in accordance with applicable Federal, state and local regulations.

SECTION 14 - TRANSPORT INFORMATION**DOT**

Not Classified

IATA

Not Classified

IMDG

Not Classified

Section 15 - Regulatory Information

RCRA HAZARDOUS WASTE NUMBER: None listed

CERCLA HAZARDOUS SUBSTANCE : None listed

SARA TOXIC CHEMICAL: None listed

SARA EHS : None listed.

TSCA INVENTORY STATUS : All components of this formulation are listed in the TSCA Inventory.

Section 16 - Other Information

PREPARED BY: Alexander R. Veress

TITLE: Technical Director, Research and Development

DISCLAIMER: The information furnished herein is believed to be accurate as of the version date and represents the best data currently available to . However, no warranty is expressed or implied regarding the accuracy of the data and . assumes no legal responsibility or liability resulting from use. Such data is offered solely for your consideration, investigation and verification.