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UNIONINK

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Rcvd 2-26-02

MATERIAL SAFETY DATA SHEET

Information in accordance with 29 CFR 1910.1200 (g)(1)

43221-0007

DATE OF ISSUE: 10/31/00 SUPERSEDES: 02/27/95 MSDS NBR: SOLV-1679

SECTION I - GENERAL INFORMATION

MANUFACTURER'S NAME: UNION INK COMPANY **HMS INFO:**
ADDRESS: 453 BROAD AVENUE **HEALTH:** 1
 RIDGEFIELD, NJ 07657 **FLAMMABILITY:** 1
EMERGENCY TELEPHONE: 800-424-9300 (CHEMTREC) **REACTIVITY:** 0
INFORMATION TELEPHONE: 201-945-5766 **PERSONAL PROTECTION:** B
PRODUCT CLASS: GLYCOL SOLVENT MIXTURE
TRADE NAME: AEROTEX REDUCER/RETARDER, UNIDYE REDUCER/
 RETARDER, WATER PHASE REDUCER/RETARDER
MANUFACTURER'S CODE: SOLV-1679, ATEX-1679, UNDY-1679

SECTION II - HAZARDOUS INGREDIENTS

This product contains the following toxic chemicals (if any are present they are marked "YES" under the SARA 313 column below) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

HAZARDOUS INGREDIENTS	CAS Number	%	SARA 313 Listed	MFR's TLV	OSHA PEL ppm mg/m	ACGIH TLV's TWA ppm STEL ppm	LEL	Vapor Press. mm Hg
PROPYLENE GLYCOL (NON-HAZARDOUS AS DEFINED UNDER OSHA REGULATIONS 29 CFR 1910.1200)	57-55-6	100	NO		N/E	N/E	2.6	12.5

The remaining (proprietary) ingredients are not found in the most recent Massachusetts, New Jersey, Maryland, Pennsylvania and California Substance Lists. THE FORMULA, IN ITS ENTIRETY, IS DEEMED "TRADE SECRET" BY THE COMPANY.

SECTION III - PHYSICAL DATA

BOILING RANGE: 369°F. **PERCENT VOLATILE BY WEIGHT:** 100
VAPOR DENSITY: HEAVIER THAN AIR **WEIGHT PER GALLON (LBS/GAL):** 8.65
EVAPORATION RATE: SLOWER THAN ETHER **VOC (THEORETICAL) (LBS/GAL):** 8.65

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: 225°F. **SETA FLASH** **U.E.L.:** N/E **L.E.L.:** 2.6

OSHA CLASSIFICATION: Combustible Liquid, Class III B.
DOT CLASS: Not Regulated.
EXTINGUISHING MEDIA: Dry Chemical, CO₂, Universal Foam or Water Spray (fog).
UNUSUAL FIRE AND EXPLOSIONS HAZARDS: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive.
SPECIAL FIRE FIGHTING PROCEDURES: Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear when fighting fire in confined spaces.

While Union Ink believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Ink assumes legal responsibility. Since the use of this information and these opinions and the use of the product are not within the control of Union Ink, it is the user's obligation to determine the conditions of safe use of the product.

N/A - Not Applicable

N/E - Not Established

U/K - Unknown

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SECTION V - HEALTH HAZARD DATA**PRIMARY ROUTE OF ENTRY:** Inhalation.**MEDICAL CONDITIONS WHICH MIGHT BE AGGRAVATED:** Emphysema, asthma, dermatitis.**OVEREXPOSURE TO VAPOR MAY CAUSE: (ACUTE)**

Dizziness, vomiting, nose bleeds, headache, drowsiness, narcosis, nausea, stupor, mild depression or loss of consciousness; Also, severe irritation to the eyes, respiratory system and dermatological effects. Ingestion will cause severe irritation to respiratory and gastric tracts.

REPEATED OVEREXPOSURE TO VAPOR MAY CAUSE: (CHRONIC)

Liver, kidney, lung, blood and central nervous system effects.

EMERGENCY AND FIRST AID PROCEDURES:If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Flush eyes with plenty of water for at least 15 minutes and **SEE A PHYSICIAN**. Wash affected skin areas with water. Remove contaminated clothing. If ingested, do not induce vomiting. **CALL A PHYSICIAN**.**SECTION VI - REACTIVITY DATA****STABILITY:** Stable **CONDITIONS TO AVOID:** High heat, sparks and open flame.**INCOMPATIBILITY (Materials to avoid):** Strong acids, alkalis, oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen - carbon dioxide/monoxide.**HAZARDOUS POLYMERIZATION:** Will Not Occur.**SECTION VII - SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Dike and contain spill with inert material (e.g., sand, earth). Transfer liquid to containers for recovery or disposal; solid diking material to separate containers for disposal. Flush cleaned area with water to a contaminated (chemical) sewer. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

WASTE DISPOSAL METHOD:

Incinerate liquid in approved equipment. Landfill or incinerate contaminated diking material according to local, state, and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION**VENTILATION:**

Use local or central mechanical engineering controls to keep concentration levels below application OSHA PEL or ACGIH's TLV limit. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product. Pockets of heavy, and/or flammable vapor must not be permitted to form.

RESPIRATORY PROTECTION:**IN OPEN AREAS:** Use approved mechanical filter respirator to remove solid airborne particles.**IN RESTRICTED VENTILATION AREAS:**

Use NIOSH/MSHA approved chemical/mechanical filter respirators designed to remove particles and vapor or positive pressure air hoods if local mechanical exhaust is not sufficient to keep TLV below levels stated in Section II.

PROTECTIVE GLOVES: Impervious type required for prolonged or repeated contact.**EYE PROTECTION:** Use safety goggles or face shields (ANSI Z87.1 or equiv.).**OTHER PROTECTIVE EQUIPMENT:** Eye bath, safety shower, aprons.**SECTION IX - SPECIAL PRECAUTIONS****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:****WARNING: COMBUSTIBLE
HARMFUL IF INHALED
LIQUID MAY CAUSE EYE AND SKIN IRRITATION
KEEP CONTAINER CLOSED
FOR INDUSTRIAL USE ONLY****KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME
USE ONLY WITH ADEQUATE VENTILATION
WASH HANDS THOROUGHLY AFTER USING
OBSERVE ALL LABEL INSTRUCTIONS
KEEP OUT OF THE REACH OF CHILDREN****AVOID PROLONGED BREATHING OF VAPOR OR CONTACT WITH SKIN****DO NOT USE UNTIL MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD**