

**M A T E R I A L   S A F E T Y   D A T A   S H E E T**

L-07281

Page: 1

**PRODUCT NAME:** ENCO LAYOUT DYE-BLUE #825-8640**HMIS CODES:** H F R P**PRODUCT CODE:** L-07281

1 3 0

**PREPARED FOR:** ENCO MANUFACTURING**SECTION I - MANUFACTURER IDENTIFICATION****MANUFACTURER'S NAME:** HYDROSOL, INC.**ADDRESS:** 8407 S. 77th Avenue  
Bridgeview, IL 60455**EMERGENCY PHONE:** 708-598-7100**DATE PRINTED:** 08/18/04**INFORMATION PHONE:** 708-598-7100**NAME OF PREPARER:** ESP**SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION**

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ACETONE OSHA PEL: 750 PPM, ACGIH TLV: 750 PPM	67-64-1	181 68	71
ISOBUTYL ACETATE OSHA PEL: 150 PPM, ACGIH TLV: 150 PPM	110-19-0	13 68	15
2-PROPANOL, ISOPROPYL ALCOHOL OSHA PEL: 400 PPM, ACGIH TLV: 400 PPM	67-63-0	33 68	2
ETHYL 3-ETHOXYPROPRIONATE OSHA PEL: NOT ESTAB, ACGIH TLV: NOT ESTAB	763-69-9	1.5 77	2
ETHYL ALCOHOL, ETHANOL OSHA PEL: 1000 PPM, ACGIH TLV: 1000 PPM	64-17-5	76 68	2
* XYLENE (MIXED ISOMERS) OSHA PEL: 100 PPM, ACGIH TLV: 100 PPM	1330-20-7	25 77	1
ETHYLBENZENE (COMPONENT OF COMMERCIAL XYLENE) OSHA PEL/ACGIH TLV: 100 PPM (STEL 125 PPM)	100-41-4	10 79	0.3

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS****BOILING RANGE:** 133 deg F - 329 deg F**SPECIFIC GRAVITY (H2O=1):** 0.82**VAPOR DENSITY:** HEAVIER THAN AIR**EVAPORATION RATE:** SLOWER THAN ETHER**SOLUBILITY IN WATER:** SLIGHT**APPEARANCE AND ODOR:** BLUE LIQUID, LACQUER ODOR**SECTION IV - FIRE AND EXPLOSION HAZARD DATA****FLASH POINT:** 1 deg F**METHOD USED:** TCC**FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER:** 1**UPPER:** 20**EXTINGUISHING MEDIA:** FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG**SPECIAL FIREFIGHTING PROCEDURES**

WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES PREFERRED. WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPOR ACCUMULATION CAN FLASH OR EXPLODE IF IGNITED. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE READILY APPARENT. OBTAIN MEDICAL ATTENTION.

**SECTION V - REACTIVITY DATA****STABILITY:** STABLE**CONDITIONS TO AVOID**

APPLICATION TO HOT SURFACES.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

STRONG OXIDIZING AGENTS.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

DECOMPOSITION FUMES MAY CONTAIN CARBON MONOXIDE AND OXIDES OF NITROGEN.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**===== SECTION VI - HEALTH HAZARD DATA =====**

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

RESPIRATORY IRRITATION, HEADACHE, NAUSEA, FATIGUE, DROWSINESS, IMPAIRED CO-ORDINATION.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

SKIN: CONTACT MAY DRY THE SKIN; PROLONGED CONTACT MAY CAUSE IRRITATION. EYES: LIQUID OR VAPOR CAN IRRITATE; PROLONGED CONTACT MAY LEAD TO CORNEAL DAMAGE.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

CAN BE ABSORBED. SOLVENT ACTION CAN DRY AND DEFAT THE SKIN CAUSING THE SKIN TO CRACK, LEADING TO DERMATITIS.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

NOT A LIKELY ROUTE OF EXPOSURE. IF SWALLOWED, INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ADVICE AND/OR ATTENTION.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

ACUTE: EYE IRRITANT. SKIN IRRITANT. NARCOTIC IN HIGH CONCENTRATIONS. CHRONIC: LIVER AND KIDNEY DISEASE.

**CARCINOGENICITY:** NTP CARCINOGEN: No    IARC MONOGRAPHS: Yes    OSHA REGULATED: No

ETHYLBENZENE HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNCERTAIN. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

ACUTE AND CHRONIC LIVER AND KIDNEY DISEASE.

**EMERGENCY AND FIRST AID PROCEDURES**

INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION. SKIN: WIPE OFF WITH TOWEL. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. EYES: WASH IMMEDIATELY WITH LARGE VOLUMES OF FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

**===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

AVOID BREATHING VAPORS. VENTILATE AREA. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

**WASTE DISPOSAL METHOD**

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

STORE AND USE IN COOL, DRY, WELL-VENTILATED AREAS. AVOID CONTACT WITH HOT METAL SURFACES. KEEP AWAY FROM EXCESSIVE HEAT OR OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED TO PREVENT EVAPORATION. OPEN CONTAINERS SLOWLY. GROUND CONTAINERS WHEN FILLING OR EMPTYING. DO NOT PUNCTURE, DRAG OR SLIDE CONTAINER.

**OTHER PRECAUTIONS**

KEEP CLOSURE TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. DO NOT GET IN EYES. AVOID PROLONGED CONTACT WITH SKIN AND CLOTHING. AVOID PROLONGED BREATHING OF VAPORS. REPLACE CAP OR BUNG AFTER EACH USE. DO NOT TAKE INTERNALLY. DO NOT WELD OR FLAME-CUT AN EMPTY CONTAINER.

TRANSPORTATION INFORMATION: DOT PROPER SHIPPING NAME: CONSUMER COMMODITY, ORM-D

**===== SECTION VIII - CONTROL MEASURES =====**

**RESPIRATORY PROTECTION**

# M A T E R I A L   S A F E T Y   D A T A   S H E E T

L-07281

Page: 3

IN RESTRICTED AREAS, USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPOR. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATOR OR HOOD. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE PEL/TLV LIMITS.

## **VENTILATION**

SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS. GENERAL DILUTION AND/OR LOCAL EXHAUST VENTILATION IN VOLUME OR PATTERN TO KEEP PEL/TLV OF MOST HAZARDOUS INGREDIENT BELOW ACCEPTABLE LIMIT AND LEL BELOW STATED LIMIT.

## **PROTECTIVE GLOVES**

SOLVENT RESISTANT REQUIRED FOR PROLONGED OR REPEATED CONTACT.

## **EYE PROTECTION**

SAFETY GLASSES WITH SPLASH GUARDS OR FULL FACE SHIELD.

## **OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

SOLVENT RESISTANT APRON.

## **WORK/HYGIENIC PRACTICES**

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

## **===== SECTION IX - DISCLAIMER =====**

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY FOR ITS USE.