

0343-00

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: HUMISEAL

GENERAL INFORMATION: (718) 932-0800 FAX: (718) 932-4345

EMERGENCY: CHEMTREC: (800) 424-9300, ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

ADDRESS: 26-60 Brooklyn Queens Expressway West, Woodside, NY 11377

CHEMICAL NAME AND SYNONYMS: Acrylic Conformal Coating

TRADE NAME AND SYNONYMS: HUMISEAL 1831

DATE OF REVISION: APRIL 17, 1995

PREPARED BY: Jim Lawrence

SARA: This product contains toxic chemicals listed in section 3A subject to the reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40 CFR 372 (SARA).

TSCA: All the chemical components are TSCA listed.

CLR: Not/Appl.

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

STATES RIGHT-TO KNOW LAWS: 100% of all chemical ingredients are listed in section 3 of this MSDS. Information indicated as proprietary will be released to a physician or appropriate authority in an emergency.

S.C.A.Q.M.: VOC 592 grams per liter.

HMIS/NFPA: Health 3 Fire 3 Reactivity 0

EXTREMELY HAZARDOUS SUBST. LIST (TPQ): Does not apply.

SHIPPING CLASS: UN 1263, Paint, Flammable Liquid

MATERIAL	WT. %	ACGIH TWA: PPM/MgPerM3 STEL: PPM/MgPerM3	CAS#
Section 3A(Sara RQ)			
Toluene(1% SARA)	47-53 150/565	100/377	108-88-3
Methyl Ethyl Ketone (1% SARA)	13-18	200/590 300/885	78-93-3
Section 3B			
Acrylic Polymer	32-38	N/B	Prop.
Optical Brightener	<1	N/B	Prop.

BOILING POINT: 180 F.

VAPOR PRESSURE(mm Hg): 45.4

VAPOR DENSITY (AIR = 1): 4.0

SPECIFIC GRAVITY (H₂O=1): .88

PERCENT VOLATILE BY VOLUME (%): 62-68.

EVAPORATION RATE (BuAc= 1): 3.62

SOLUBILITY IN WATER: Negligible - less than 0.1 percent.

APPEARANCE AND ODOR: Water clear, low viscosity liquid, aromatic odor.

FLASH POINT (METHOD USED): 30 F (Tag Closed Cup).

FLAMMABLE LIMITS: LEL: 1.6 UEL: 11.2

EXTINGUISHING MEDIA: Foam, carbon dioxide and dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Fight as a flammable liquid fire; wear self contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION

HAZARDS: Vapor is flammable and heavier than air and may travel to source of ignition and flashback

ROUTES OF ENTRY: SKIN: Yes. INHALATION: Yes. INGESTION: Yes.

EFFECTS OF EXPOSURE:

Eyes: Short term contact may result in slight eye irritation and conjunctivitis. Prolonged contact with liquid can result in corneal burns. High vapor concentrations approx. 1000PPM are irritating to the eyes.

Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin, which may result in skin irritation and dermatitis. Dermal LD50 (Rabbits): >2000mg/Kg. Skin absorption may add significantly to exposure.

Inhalation: Causes central nervous system depression. Mild exposure causes dizziness, weakness, headache, nausea, etc.. More severe exposures, greater than approx. 1000PPM, may cause respirator depression, convulsions and death. Cardiac arrhythmias, including fatal ventricular fibrillation, may occur. 1hr-rat LC50: 4000PPM/4 hrs. Olfactory detection level is 50 PPM. However, sense of smell is dulled by continuous exposure, so unsatisfactory as a means of detection. ~~Exposure to vapors may cause irritation of the respiratory tract and may result in pulmonary edema. Inhalation of vapors may also cause irritation of the eyes and skin.~~ to produce symptoms similar to those described for inhalation. More serious hazard posed by vomiting after swelling resulting in aspiration (breathing) of vomitus into lungs which may result in chemical pneumonitis and respiratory distress/bronchospasm and may be fatal. **CARCINOGENICITY:** This product is not listed by the National Toxicology Program, the International Agency for Research on Cancer or the Occupational Safety and Health Administration.

~~Remove contaminated clothing and shoes. Wash with water for 15 minutes while holding eyelids open. Get medical attention.~~

Skin: Flush with water while removing contaminated clothing and shoes, follow by washing with soap and water. Do not reuse clothing or shoes until properly cleaned. If irritation persists, get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. **Ingestion:**

DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get medical attention.

NOTE TO PHYSICIAN: If more than 2 ml/kg has been ingested, and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric

lavage using a cuffed endotracheal tube should be considered.

ACTION LEVEL: 4g/L Hippuric Acid level in urine (sampled at end of workday).

STABILITY (choose one): () UNSTABLE (X) STABLE.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide.

HAZARDOUS POLYMERIZATION (choose one): () MAY OCCUR (X) WILL NOT OCCUR.

CONDITIONS TO AVOID: Not Applicable

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with inert material (sand, vermiculite, etc.) Large spills may be cleaned up with non-sparking tools. Remove sources of ignition. Provide ventilation and/or respiratory protection.

WASTE DISPOSAL METHOD: Disposal of HumiSeal products requires strict compliance with local, state and federal regulations pertaining to disposing hazardous waste materials. Contact the appropriate environmental agencies.

RCRA Waste No./RQ: Toluene; U220/1000lbs., MEK; U159/5000lbs. CERCLA: Toluene; 1000lbs., MEK; 5000lbs

RESPIRATORY PROTECTION (SPECIFY TYPE): Respirator-organic vapor type if TLV is exceeded (NIOSH approved).

VENTILATION: LOCAL EXHAUST: Yes.

HAZARDOUS (GENERAL): EXPLOSION PROOF.

SPECIAL: Designed and maintained to provide volume and patterned to prevent vapor. **OTHER:** Concentration in excess of TLV or PEL.

PROTECTIVE GLOVES: Impervious to chemical and petroleum (BUNA-N, Solvex etc.).

EYE PROTECTION: Chemical type goggles must be worn.

OTHER PROTECTIVE EQUIPMENT: Prevent contact to workers as required.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks and open flames. Store at ambient temperature. Ground to protect from static charge. Keep container closed. Use adequate ventilation.