

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CRYSTAL SHEEN - INDUSTRIAL  
 PRODUCT CLASS: CLEAR EPOXY HARDENER  
 PRODUCT NUMBER: 02211, 02228

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**SECTION I - MANUFACTURER IDENTIFICATION**

ENVIRONMENTAL TECHNOLOGY, INC.  
 300 SOUTH BAY DEPOT ROAD  
 FIELDS LANDING, CA 95537

**DEPARTMENT OF TRANSPORTATION INFORMATION:**

PROPER SHIPPING NAME: CONSUMER COMMODITY

**PROPER HAZARD CLASS:**

ORM-D

**PHONE NUMBER FOR INFORMATION:**

(707) 443-9323

**TRANSPORTATION EMERGENCY PHONE NUMBER:**

CHEMTREC (800) 424-9300

DATE PREPARED: 06/10/08

PREPARED BY: TECHNICAL DIRECTOR

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

HAZARDOUS COMPONENTS	CAS REG.NO.	APPROX WT.%	ACGIH TWA/TLV	OSHA PEL	VAPOR PRESSURE mm Hg
NONYL PHENOL	84852-15-3	T/S	N/E	N/E	<1
N-AMINOETHYLPIPERAZINE	140318	T/S	N/E	N/E	0.05
POLYOXYALKYLENEAMINES	T/S	T/S	N/E	N/E	N/E

ALTHOUGH NO EXPOSURE STANDARDS HAVE BEEN ESTABLISHED FOR THIS PRODUCT, AIR CONTAMINANT CONCENTRATIONS MUST BE MAINTAINED AT LOWEST POSSIBLE LEVELS.

T/S = TRADE SECRET N/A = NOT AVAILABLE N/E = NOT ESTABLISHED

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

BOILING RANGE °F	>400	PERCENT VOLATILE BY VOLUME		T/S
MELTING OR FREEZING POINT	N/E	PERCENT VOLATILE BY WEIGHT		T/S
VAPOR DENSITY (AIR=1)	>1	EVAPORATION RATE (SLOWER THAN ETHER)	LBS./GAL	8.1
SOLUBILITY IN WATER: SLIGHT			VOC LBS/GAL	T/S
APPEARANCE AND ODOR: CLEAR, SLIGHTLY YELLOW, SOMEWHAT VISCOUS SOLUTION WITH TYPICAL AMINE ODOR (SOMEWHAT FISHY)			VOC GRAMS/LITER	T/S

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): >200°F PMCC FLAMMABLE LIMITS: LEL: N/E UEL: N/E

EXTINGUISHING MEDIA:  FOAM  ALCOHOL FOAM  CO2  DRY CHEMICAL  WATER SPRAY OTHER

SPECIAL FIRE FIGHTING PROCEDURES: USE NIOSH APPROVED PROTECTIVE CLOTHING INCLUDING POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS(SCBA). COOL UNOPENED CONTAINERS WITH WATER SPRAY. UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE EXPECTED

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## SECTION V - REACTIVITY DATA

STABILITY:  UNSTABLE  STABLE / CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID): ACIDS OR POLYMERS REACTIVE WITH AMINES

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: BURNING PRODUCT WILL EMIT TOXIC OXIDES OF CARBON AND NITROGEN.

HAZARDOUS POLYMERIZATION:  MAY OCCUR  MAY NOT OCCUR.

CONDITIONS TO AVOID: AVOID PRODUCT CONTAMINATION.

## SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? **YES** SKIN? **YES** INGESTION? **NOT LIKELY**

HEALTH HAZARDS (ACUTE AND CHRONIC): DANGER - MATERIAL IS CORROSIVE AND COULD SEVERELY BURN SKIN, EYES, RESPIRATORY TRACT, AND LUNGS IF ASPIRATED. COULD CAUSE BLINDNESS OR DEATH IF SWALLOWED.

CARCINOGENICITY: NTP? **NO** IARC MONOGRAPHS? **NO** OSHA REGULATED? **NO**

SIGNS AND SYMPTOMS OF EXPOSURE: IRRITATION OF EYES, SKIN AND RESPIRATORY SYSTEM. CAUSES PAIN IN EXPOSED AREAS; BLISTERS MAY FORM, ABDOMINAL AND DIGESTIVE TRACT PAIN IF SWALLOWED.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN AND/OR RESPIRATORY PROBLEMS COULD BE WORSENER BY EXPOSURE TO THIS PRODUCT.

**EMERGENCY AND FIRST AID PROCEDURES: ORAL:** DO NOT INDUCE VOMITING, CALL PHYSICIAN IMMEDIATELY!  
**EYES:** SEVERE IRRITANT TO EYES. IN CASE OF EYE CONTACT, FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES AND GET PROMPT MEDICAL ATTENTION. **SKIN:** WASH IMMEDIATELY WITH SOAP AND RINSE THOROUGHLY WITH WATER. DO NOT USE SOLVENTS OR ALCOHOL TO REMOVE PRODUCT FROM SKIN. **INHALATION:** MOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER CPR. IF BREATHING IS DIFFICULT, GET MEDICAL ATTENTION.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND NIOSH APPROVED RESPIRATOR. DIKE AND CONTAIN SPILL. SPREAD ABSORBENT MATERIAL. KEEP SPECTATORS AWAY.

WASTE DISPOSAL METHOD: NOT A RCRA HAZARDOUS WASTE AS SUPPLIED; USER MUST DETERMINE RCRA STATUS AT TIME OF DISPOSAL. LANDFILL OR INCINERATE IN ACCORDANCE WITH EXISTING FEDERAL, STATE, AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN COOL DRY AREA, AWAY FROM STRONG OXIDANTS, HEAT OR IGNITION SOURCES. ALWAYS KEEP CONTAINERS CLOSED. DO NOT GET ON SKIN OR BREATHE VAPORS.

OTHER PRECAUTIONS: CLEAN UP ANY SPILLS IMMEDIATELY. WASH ANY AREAS OF BODY CONTACT IMMEDIATELY.

## SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH APPROVED TO PREVENT INHALATION OF VAPORS; IF VENTILATION IS INADEQUATE, SCBA MAY BE REQUIRED.

VENTILATION: LOCAL EXHAUST: IF REQUIRED. SPECIAL VENTILATION MUST BE ADEQUATE TO AVOID BREATHING VAPORS. USE IN SEALED EQUIPMENT AS MUCH AS POSSIBLE. MECHANICAL (GENERAL): REQUIRED

PROTECTIVE GLOVES: NEOPRENE OR RUBBER

EYE PROTECTION: SAFETY GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: TO AVOID ALL SKIN CONTACT, WEAR A PROTECTIVE APRON AND AVOID FOOT CONTACT.

WORK/HYGIENIC PRACTICES: WASH AT END OF WORK SHIFT, BEFORE EATING, SMOKING OR USING RESTROOM. DO NOT RE-USE CONTAMINATED CLOTHING.

REGULATORY INFORMATION: THIS PRODUCT IS REGULATED UNDER SARA TITLE III SECTION 311 AS ACUTELY HAZARDOUS. UNDER CALIFORNIA'S PROPOSITION 65, THERE ARE NO REPORTABLE LEVELS OF COMPONENTS IN THIS PRODUCT THAT ARE SUBSTANCES OR BELONG TO CLASSES OF SUBSTANCES, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE HARM.

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