

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

PRODUCT NAME: ENGARD 460 H.S. EPOXY - PART A  
PRODUCT CODE: 460HSAC ACTIVATOR

HMIS CODES: H F R P  
2\*1 0

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: ELLIS PAINT CO.  
ADDRESS : 3150 E. PICO BLVD.  
LOS ANGELES, CA 90023-3683

EMERGENCY PHONE(CHEMTREC) : (800) 424-9300      DATE PRINTED : 12/13/2010  
INFORMATION PHONE : (323) 261-8114      NAME OF PREPARER :

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mmHG	@TEMP(F)
FATTY ACID POLYAMIDE. OSHA PEL: NOT KNOWN, ACGIH TLV: NOT KNOWN	68410-23-1	0	68
~ ALIPHATIC AMINE	PROP.		
TRIETHYLENE TETRAMINE OSHA PEL: NE, ACGIH TLV: NE	112-24-3	NA	NA

~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 (Deg F): 392	DENSITY: 10.46 lb/gl
VAPOR DENSITY: HEAVIER THAN AIR	SPECIFIC GRAVITY (H2O=1): 1.26
COATING V.O.C.: 1.02 lb/gl	MATERIAL V.O.C.: 1.02 lb/gl
COATING V.O.C.: 122 g/l	MATERIAL V.O.C.: 122 g/l
SOLUBILITY IN WATER: Negligible	EVAPORATION RATE: SLOWER THAN ETHER
APPEARANCE AND ODOR: Clear liquid with mild odor	

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

FLASH POINT (Deg F): 230      METHOD USED: TCC  
FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: 0      UPPER: 0

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES  
Use approved self-contained breathing apparatus. Do not use direct stream of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS  
Fire-exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Not classified as dangerous under EC criteria.

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: May cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in bronchitis and convulsions.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Eye contact: Severe irritation, redness, tearing and blurred vision. Skin contact: Moderate irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin absorption: May cause irritation, de-fatting and dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute: May cause eye, nose, respiratory tract and skin irritation, headache, drowsiness and nausea. Ingestion may result in vomiting; aspiration (breathing in) into the lungs may result in aspiration pneumonitis. Chronic: Long term exposure may lead to central nervous system depression, dermatitis and liver and kidney damage.

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

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing eye, skin and respiratory disorders may be aggravated.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. SPLASH (EYES): FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SPLASH (SKIN): WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION IMMEDIATELY.

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP. SMALL SPILLS MAY BE PICKED UP WITH ABSORBENT MATERIALS.

**WASTE DISPOSAL METHOD**

Place in tightly closed containers. Incinerate or dispose of in accordance with local, state and federal regulations.

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

Store away from heat, sparks and open flames. Keep containers tightly closed when not in use. Use with adequate ventilation.

**OTHER PRECAUTIONS**

Do not take internally. Avoid prolonged contact. Ground equipment to prevent accumulation of static charge.

## ===== SECTION VIII - CONTROL MEASURES =====

**RESPIRATORY PROTECTION**

Use self-contained breathing apparatus where vapor concentration may be above TLV limits. Where vapor does not exceed TLV limits, use NIOSH/MSHA approved respirator.

**VENTILATION**

Adequate volume and pattern to keep air contaminant concentration below current applicable OSHA or ACGIH TLV limits.

**PROTECTIVE GLOVES**

Chemical resistant gloves

**EYE PROTECTION**

Chemical goggles, safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Eye bath and safety shower

**WORK/HYGIENIC PRACTICES**

Wash hands thoroughly before eating or using the washroom. Smoke in smoking areas only.

## ===== SECTION IX - TRANSPORT INFORMATION =====

**DOT (GROUND)**

1.3 gallons (5 liters) or less:  
UN1263, Paint, 3, PGIII, "Ltd. Qty."

Greater than 1.3 gallons (5 liters):  
UN1263, Paint, 3, PGIII

**AIR**

UN1263, Paint, 3, PGIII

## ===== SECTION X - REGULATORY INFORMATION =====

CALIFORNIA PROPOSITION 65

None

===== SECTION XI - DISCLAIMER =====

The information contained herein is based on the data available to us and is believed to be correct. However, ELLIS PAINT CO. makes no warranty expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. ELLIS PAINT CO. assumes no responsibility for injury from the use of the product described herein.