

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: 460HS-08 GRAY

HMIS CODES: H F R P  
 2\*3 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 : 1/19/2009  
 INFORMATION PHONE : (323) 261-8136      NAME OF PREPARER :

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE	
		mmHG	@TEMP (F)
MAGNESIUM SILICATE OSHA PEL: 20 Mppct, ACGIH TLV: 2 mg/M3	14807-96-6	NA	NA
DIGYLCIDYL ETHER OF BISPHENOL A HOMOPOLYMER OSHA PEL: NE, ACGIH TLV: NE	25085-99-8	NA	NA
CRYSTALLINE SILICA QUARTZ ACGIH TLV: 0.1 mg/m3	14808-60-7	NA	NA
TITANIUM DIOXIDE (as total nuisance dust) OSHA PEL: 10 ppm, ACGIH TLV: 10 mg/m3	13463-67-7	NA	NA
~ METHYL ISOBUTYL KETONE OSHA PEL: 100 ppm, ACGIH TLV: 50 ppm	108-10-1	14.5	68
~ TOLUENE OSHA PEL: 200 ppm, ACGIH TLV: 100 ppm	108-88-3	21.8	68
~ XYLENE (MIXED ISOMERS) OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm	1330-20-7	6.1	68
~ METHYL ETHYL KETONE OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm	78-93-3	70.9	68
~ n-BUTYL ALCOHOL OSHA PEL: 50 ppm, ACGIH TLV: 50 ppm	71-36-3	4.1	68
~ ETHYL BENZENE OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm	100-41-4	10	68

~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): 175 - 285      DENSITY: 13.76 lb/gal  
 VAPOR DENSITY: HEAVIER THAN AIR      SPECIFIC GRAVITY (H2O=1): 1.65  
 COATING V.O.C.: 1.77 lb/gal      MATERIAL V.O.C.: 1.77 lb/gal  
 COATING V.O.C.: 212 g/l      MATERIAL V.O.C.: 212 g/l  
 SOLUBILITY IN WATER: Negligible      EVAPORATION RATE: SLOWER THAN ETHER  
 APPEARANCE AND ODOR: Gray liquid with mild odor

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

FLASH POINT (Deg F): 25      METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY % VOLUME- LOWER: 0                    UPPER: 11.5

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

Excessive heat, sparks or open flames.

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: Yes IARC MONOGRAPHS: Yes OSHA REGULATED: No  
This material contains crystalline silica, which has been classified as a known carcinogen for humans (1) by IARC and a probable carcinogen by NTP. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease caused by excessive exposure to crystalline silica. This material contains ethylbenzene which is classified as "possibly carcinogenic to humans" (2B) by IARC.

#### 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 - REGULATORY INFORMATION =====

## CALIFORNIA PROPOSITION 65

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

Contains: Toluene -

This product contains a chemical known to the State of California to cause cancer.

Contains: Ethylbenzene - Silica, Crystalline -

## ===== SECTION X - 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.