

MATERIAL SAFETY DATA SHEET

Product No.: CLS773A

SECTION I - XVI

SECTION I - PRODUCT & COMPANY IDENTIFICATION

CLS 773 HI-STRENGTH TROWEL GRADE EPOXY PART A

MANUFACTURER: C.L. SMITH INDUSTRIAL

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SECTION II - INGREDIENTS/HAZARD INFORMATION

EPOXY RESIN LIQUID

* CAS No.: 25085-99-8 Percent By Weight: 45 To 50 LEL: NA UEL: NA

OSHA PEL: NE ppm NE mg/M3 TWA ACGIH TLV: NE ppm NE mg/M3 TWA

LD50: Skin 20,000 mg/kg LC50: LD 50 ORAL >5000 mg/kg V.P.(1) NA

Listed On(2) a: N b: N c: N d: Y e: N f: N g: Y h: N

Skin sensitizer.

CRYSTALLINE SILICA

* CAS No.: 14808-60-7 Percent By Weight: 40 To 45 LEL: NA UEL:

OSHA PEL: NA ppm 0.098 mg/M3 TWA ACGIH TLV: NA ppm 0.05 mg/M3 TWA

LD50: NA LC50: NA V.P.(1) NA

Listed On(2) a: N b: N c: N d: Y e: Y f: Y g: Y h: N

RESPIRABLE DUST CAN CAUSE SILICOSIS, CANCER, AUTOIMMUNE DISEASES

AMORPHOUS SILICA

* CAS No.: 112926-00-8 Percent By Weight: 1 To 5 LEL: NA UEL: NA

OSHA PEL: NA ppm 6 mg/M3 TWA ACGIH TLV: NA ppm 10 mg/M3 TWA

LD50: NA LC50: NA V.P.(1) NA

Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N

Contains no crystalline silica.

TITANIUM DIOXIDE

* CAS No.: 13463-67-7 Percent By Weight: 1 To 5 LEL: NA UEL:

OSHA PEL: NA ppm 10 mg/M3 TWA ACGIH TLV: NA ppm 10 mg/M3 TWA

LD50: LC50: V.P.(1) NA

Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N

* Defined as hazardous per 29 CFR 1910.1200 ** Indicates Active Ingredient

(1) Vapor Pressure In mm Hg

(2) a = SARA 302/304 b = SARA 313 c = CERCLA 103(a) d = TSCA e = NTP Carcinogen f = IARC Carcinogen

g = California Prop. 65 h = OSHA Carcinogen

NOTE: Multi-component products when mixed will have the cumulative hazards of all components.

SECTION III - HAZARD IDENTIFICATION

EFFECTS OF OVEREXPOSURE - ACUTE:

Breathing: Irritation of the respiratory tract; headache, nausea, dizziness.

Eye or Skin Contact: May cause eye and skin irritation.

Swallowing: No effects anticipated from ingestion incidental to normal use. Larger quantities may cause distress of the digestive tract and nausea.

CHRONIC: Crystalline silica has been classified as carcinogenic for humans (2A) by IARC. The excessive inhalation of crystalline silica is also a known cause of silicosis. (Risk depends on duration and level of exposure.) Other possible chronic effects are silicosis, cancer, scleroderma and tuberculosis. The main route of entry is inhalation of crystalline silica. Dry silica powder should be handled with great care. When the silica is mixed and wetted by the other components the risk of inhalation is greatly reduced. For this product the silica dust is only a hazard when the cured material is sanded or removed.

MATERIAL SAFETY DATA SHEET

Product No.: CLS773A

SECTION I -XVI

SECTION III - HAZARD IDENTIFICATION Con't.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: If you are allergic or have been sensitized to: epoxies, amines, detergents, or other chemicals see a physician prior to use. Some individuals may require protective creams if they are sensitive to chemicals. If none of these conditions exist and you use the product in accordance with the Safe Handling and Use Information (Sections VII and VIII) you should expect no mild medical conditions to be aggravated. However if the worker is exposed for an extended period to repeated washing of skin areas with soap and water or other cleaning solutions can remove a large part of the natural protective oils in the skin and require the worker to use a protective cream after each washing to replace the oils removed by washing.

ROUTE(S) OF ENTRY: (X)SKIN (X)BREATHING (X)SWALLOWING Note: Since the powder components are completely mixed into a liquid as delivered to the user No breathing exposure will be present to the user in the application process. Exposure to the dust can occur when the cured product is ground or sanded and in this case the safety measures outlined Section VIII are to be followed.

SECTION IV - FIRST AID MEASURES

IF BREATHED: Remove to fresh air.

IF IN EYES: In case of eye contact, flush with large amounts of water for at least 15 minutes. Get medical assistance.

IF ON SKIN: Remove with soap and water. Use a good quality hand lotion to add back natural protective oils to the skin. Remove soiled clothing and laundry before reuse. Get medical assistance if irritation persists.

IF SWALLOWED: Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician immediately. Treat symptomatically. Never give anything by mouth to an unconscious person.

SECTION V - FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION: FLASH POINT: above 225F

EXTINGUISHING MEDIA: In case of fire, use CO₂, Dry Chemical, Foam or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Due to pressure build-up, closed containers exposed to extreme heat may explode. **EXOTHERMIC REACTION:** When mixed with a second reactive component and kept in a mass (larger than 1/2 gallon or larger of mixed material) for longer than the pot life the material can exotherm to a very high temperature and decompose from the heat of the reaction. **DO NOT BREATHE ANY OF THE FUMES!.** Remove the over-heated container to an outside location and avoid breathing any fumes. See section on **HAZARDOUS DECOMPOSITION:** During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES: Summon professional firefighters. Use full protective equipment including self-contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build-up or possible auto-ignition.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Wash with water. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data form. Contain spilled material and remove with inert absorbent. Store in closed container until properly disposed of.

SECTION VII - HANDLING AND STORAGE

The best storage is between 65F and 95F. At lower temperatures the product maybe too stiff to use properly. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers.

For Industrial Use Only. Keep out of reach of children.

SECTION VIII - PERSONAL PROTECTION

RESPIRATORY PROTECTION: All workers and bystanders must be protected from exposure above Section II limits. Avoid

MATERIAL SAFETY DATA SHEET

Product No.: CLS773A

SECTION I -XVI

SECTION VIII - PERSONAL PROTECTION Con't.

breathing vapors, spray mist or sanding dust. Application by brush, roller, squeegee, or trowel will result in the lowest release of hazardous materials. In practice this product releases nearly zero contaminants to the air when applied by trowel. The product is not designed for any other method of application. Never thin the product with organic or combustible solvents.

CRYSTALLINE SILICA RESPIRATORY PROTECTION. This product contains SILICA however this material is only a hazard when the product is sanded or ground after curing. If this is the case use a NIOSH approved air purifying or supplied-air-respirator where airborne concentrations of crystalline silica (quartz) are expected to exceed exposure limits. (see table below). Appropriate respiratory protection for respirable crystalline silica is based on the airborne exposure concentration and duration of exposure for the particular use of the respirator. A respiratory protection program in accordance with OSHA standard 28CFR 1910.134 must be implemented whenever workplace conditions warrant use of a respirator ANSI Standard Z88.2 (recent revision) "American National Standard for Respiratory Protection" should also be considered. All tight-fitting respirators must be fit-tested either qualitatively or quantitatively for each respirator user. NIOSH recommends the use of respiratory protection when effective engineering controls are not feasible, or while they are being installed to control workplace exposures to crystalline silica.

Airborne Silica

Concentration	Minimum Respiratory Protection
Up to 0.5mg/m ³	Any air-purifying respirator with a high efficiency (HEPA) filter.
Up to 1.25mg/m ³	Any powered air-purifying full-face respirator with a HEPA filter Or any supplied-air-respirator operated in continuous flow mode.
Up to 2.5mg/m ³	Any powered air-purifying full-face respirator with a HEPA filter Or any powered air-purifying-respirator with a tight fitting face piece and a HEPA filter.
Up to 25mg/m ³	Any supplied-air-respirator operated in a pressure-demand or other positive pressure mode.
Emergency Up to 500mg/m ³	Any self contained breathing apparatus with a full-face piece and is operated in pressure-demand mode or other positive pressure mode.

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent contact are recommended. Discard the gloves when they are penetrated by the liquid or worn through. Wash with soap and water and use a protective cream.

EYE PROTECTION: Do not get in eyes. Safety eyewear with splash guards or side shields are recommended to prevent contact.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent contact are recommended. If the clothing is penetrated by the liquid remove the clothing and launder before reuse. Wash the effected area with soap and water and use a protective cream. If shoes or boots are penetrated DO NOT REUSE. (Feet tend to sweat and leach out chemicals from the saturated leather). Wash the effected area with soap and water and apply protective cream. Use new shoes and or boots. Depending on the severity and extent of the skin contact medical assistance maybe required. If this is a repeated contact seek medical advice before continuing to work with the products.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. It is very important to use clean clothing in areas where chaffing can occur. Like the neck and collar area and the wrist area. Wash hands before eating, smoking or using the washroom. Remove any contaminated clothing and clean before reuse. Shoes and boots if contaminated must be replaced. Note that the washing of exposed areas on a regular and frequent basis can cause that area to become sensitive. The daily and frequent use of a protective cream in sensitive areas is recommended.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

WATER SOLUBILITY: Generally not miscible and lighter than water.

ODOR: Mild, characteristic of solvents listed in SECTION II.

WEIGHT PER GALLON: 13.35 Pounds

PERCENT VOLATILE BY VOLUME: 0.00

EVAPORATION RATE: ()Faster (X) Slower Than Ether

BOILING RANGE: NA

VAPOR DENSITY: (X)Heavier ()Lighter Than Air -

MATERIAL SAFETY DATA SHEET
Product No.: CLS773A

SECTION I -XVI

SECTION X - STABILITY AND REACTIVITY

STABILITY:()UNSTABLE (X)STABLE

INCOMPATIBILITY: Avoid contact with: mineral acids, amines, and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: May cause hazardous fumes when heated to decomposition or from mixed material that is kept in 1/2 gallon or larger mass longer than the pot life. The following represents a partial list: (from burning, heating, or reaction with other materials). Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. nitrosamines. Aldehydes. The oxides of nitrogen gases (except nitrous oxide) emitted on decomposition are highly toxic. An other unidentified phenolic and organic compounds and oxides of metals listed in Section II. Treat all of these fumes as hazardous and DO NOT BREATHE.

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

MIXED PRODUCT SHOULD NOT BE KEPT IN QUANTITIES GREATER THAN 3 LBS WEIGHT (approx. 1 QUART VOLUME LONGER THAN 25 TO 35 MINUTES. The product reacts quickly when in large mixed masses and develops heat quickly. It is possible for the mass to reach decomposition temperatures and give off dangerous gasses. ALWAYS pour the material out in thin thickness (1/4 inch or less) to avoid the mass reaction.

SECTION XI - TOXICOLOGICAL INFORMATION

No information available.

SECTION XII - ECOLOGICAL INFORMATION

No information available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

SECTION XIV - TRANSPORTATION INFORMATION

DOT CLASS: NOT REGULATED

SECTION XV - REGULATORY INFORMATION

This product contains 0.00 pounds per gallon (0 grams/liter) volatile organic compounds. The VOC less water and exempt solvents is 0.00 lbs./gal. (0 gms./L.)

This product may contain chemicals as contaminants which are known to the state of California to cause cancer, birth defects or other reproductive harm. This product contains a chemical known to the state of California to cause cancer.

SECTION XVI - OTHER INFORMATION

HMIS RATING: (H)ealth 1* (F)lammability 1 (R)eactivity 0

The information contained herein is based on data believed by C.L. SMITH INDUSTRIAL to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy himself that he can meet all applicable safety and health standards.