

SAFETY DATA SHEET (SDS)
Section 1. Identification

Product identifier	SUPER CLEAR DEEP CASTING - PART B
Other means of identification	LCT-B
Recommended use and restrictions on use	CASTING AND DEEP POURS
Initial supplier identifier	Designer Epoxy, 43 Samson Boul, Suite 367, Laval, QC H7X 3R8, (514) 806 1235
Emergency telephone number/restriction on use	Canada – CANUTEC Number 24 hours 613-996-6666

Section 2. Hazard Identification

Classification of hazardous product (name of the category or subcategory of the hazard class)
Acute toxicity, oral (Category 4) Acute toxicity, dermal (Category 4) Serious eye damage/eye irritation (Category 1) Hazardous to the aquatic environment, long-term-hazard (Category 1)
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)


Warning

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H318 Causes serious eye damage.
 H411 Toxic to aquatic life with long lasting effects

Prevention

P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

Response

IF SWALLOWED: P301 + P312 call a POISON CENTER if you feel unwell. P330 Rinse mouth.
 IF ON SKIN: P302 + P352 Wash with plenty of water. P312 call a POISON CENTER if you feel unwell. P362 + P364 Take off contaminated clothing and wash it before reuse.
 IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER.
 ENVIRONMENT: P391 Control spillage.

Disposal

P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other hazards known	None
----------------------------	------

Section 3. Composition/Information on Ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
Epoxy Amine Hardener	-----	<100 %

*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

Section 4. First-Aid Measures

Inhalation	IF INHALED: Get medical attention immediately. If overexposure remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. Do not use mouth-to-mouth method if victim inhaled the substance. If symptoms persist, seek medical attention.
Ingestion	IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Rinse mouth thoroughly with water.
Skin contact	IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. If symptoms persist, seek medical attention.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Most important symptoms and effects (acute or delayed)	Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

Section 5. Fire-Fighting Measures

Specific hazards of the hazardous product (hazardous combustion products)
Oxides of carbon and nitrogen.

Suitable and unsuitable extinguishing media				
In case of fire: Use Dry chemical, water fog				
Special protective equipment and precautions for fire-fighters				
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required				
Section 6. Accidental Release Measures				
Personal precautions, protective equipment and emergency procedures				
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. Removal of ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.				
Methods and materials for containment and cleaning up				
Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.				
Section 7. Handling and Storage				
Precautions for safe handling				
Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection.				
Conditions for safe storage, including any incompatibilities				
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.				
Section 8. Exposure Controls/Personal Protection				
Control parameters (biological limit values or exposure limit values and source of those values)				
Exposure limits: ACGIH – TLV-TWA Not available.				
Appropriate engineering controls				
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.				
Individual protection measures/personal protective equipment				
Gloves: Neopren gloves or equivalent; Clothing: use suitable protective clothing to prevent any possibility of skin contact; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.				
Section 9. Physical and Chemical Properties				
Appearance, physical state/colour		Liquid	Vapour pressure	Not available
Odour		Not available	Vapour density	Not available
Odour threshold		Not available	Relative density	Not available
pH		Not available	Solubility	Not available
Melting/freezing point		Not available	Partition coefficient - n-octanol/water Not available	
Initial boiling point/range		Not available	Auto-ignition temperature Not available	
Flash point		218.5 °C (425.3°F)	Decomposition temperature Not available	
Evaporation rate		Not available	Viscosity Not available	
Flammability (solids and gases)		Not available	VOC	Not available
Upper and lower flammability/explosive limits		Not available	Other	None known
Section 10. Stability and Reactivity				
Reactivity				
Does not react under the recommended storage and handling conditions prescribed.				
Chemical stability				
Yes, Stable under the recommended storage and handling conditions prescribed.				
Possibility of hazardous reactions				
Non under normal conditions of storage and use.				
Conditions to avoid (static discharge, shock or vibration)				
Excess heat and sources of ignition				

Incompatible materials		
Avoid contact with oxidizing agents, acids, epoxies.		
Hazardous decomposition products		
None known.		
Section 11. Toxicological Information		
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)		
Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage.		
Symptoms related to the physical, chemical and toxicological characteristics		
Corrosive, may cause skin burns.		
Delayed and immediate effects (chronic effects from short-term and long-term exposure)		
Skin Sensitization – Not classified. Causes serious eye damage. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No positive mutagenic effects reported; Carcinogenicity – No classified as a carcinogenic; Reproductive Toxicity – Not available; Specific Target Organ Toxicity — Single Exposure – No information found; Specific Target Organ Toxicity — Repeated Exposure – No information found; Aspiration Hazard – No information found; Health Hazards Not Otherwise Classified – No data available.		
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)		
Acute toxicity: LD ₅₀ Oral - Rat 550 mg/kg bw female; LD ₅₀ Dermal Rabbit >1000 mg/kg bw; LC ₅₀ Inhalation Rat No available; ATE not available in this document.		
Section 12. Ecological Information		
Ecotoxicity (aquatic and terrestrial information)		
Fish toxicity: LC ₅₀ : >100 mg/L (Fish, 96h);		
Toxicity to Aquatic Invertebrates: EC ₅₀ : 13 mg/l (Crustacea) 48h.		
Acute toxicity to aquatic plants: EC ₅₀ : 4.4 mg/l (Algae) 72h		
Persistence and degradability	Under test conditions no biodegradation observed	
Bioaccumulative potential	Not available	
Mobility in soil	No data available	
Other adverse effects	Toxic to aquatic life with long lasting effects.	
Section 13. Disposal Considerations		
Information on safe handling for disposal/methods of disposal/contaminated packaging		
Dispose of contents/container into safe container in accordance with local, regional or national regulations.		
Section 14. Transport Information		
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations		
UN 3082; Environmentally Hazardous Substance Liquid (Epoxy Amine Hardener), N.O.S.; HAZARD CLASS:9; PACKING GROUP: III		
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)		
UN 3082; Environmentally Hazardous Substance Liquid (Epoxy Amine Hardener), N.O.S.; HAZARD CLASS:9; PACKING GROUP: III		
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)		
UN 3082; Environmentally Hazardous Substance Liquid (Epoxy Amine Hardener) , N.O.S.; HAZARD CLASS:9; PACKING GROUP: III		
Special precautions (transport/conveyance)	None	
Environmental hazards (IMDG or other)	None	
Bulk transport (usually more than 450 L in capacity)	Possible	
Section 15. Regulatory Information		
Safety/health Canadian regulations specifics	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).	
Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL	
Safety/health/environmental outside regulations specifics		
United States OSHA information: This product is regulated according to OSHA (29 CFR).		
United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.		
United States TCSA information: Refer to the ingredients listed in Section 3.		
Section 16. Other Information		
Date of the latest revision of the safety data sheet	September 28, 2019 - version 02	
References	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu	
Abbreviations		
ACGIH	American Conference of Governmental Industrial Hygienists	
ATE	Acute toxicity estimate	
CAS	Chemical Abstract Service	
DSL	Domestic Substance List	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods Code	

LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

DISCLAIMER: Designer Epoxy expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Users are responsible to verify whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. In order to meet our strict requirements, we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data included in this reference document may not be up to date as of the date of reference.