

SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	ARTCAST Part A
Other means of identification	CRUV11000A
Recommended use and restrictions on use	Art castings and countertops
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) Skin corrosion/irritation (Category 2) Skin sensitization (Category 1) Serious eye damage/eye irritation (Category 2A) Hazardous to the aquatic environment, long-term-hazard (Category 3)
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



Warning

H302 Harmful if swallowed
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P272 Contaminated work clothing should not be allowed out of the workplace. 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/doctor if you feel unwell. P330 Rinse mouth.
IF ON SKIN: P302 + P352 Wash with plenty of water. P312 Call a POISON CENTER/doctor if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/attention P362 + P364 Take off contaminated clothing and wash it before reuse.
IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention.

Disposal

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

Other hazards known	None
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Section 3. Composition/Information on Ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
Epoxy liquid resin	25068-38-6	60-100 %
1,4-Butanediol Diglycidyl Ether	2425-79-8	1-10 %
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*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: If overexposure remove person to fresh air and keep comfortable for breathing. If symptoms persist, seek medical attention.
Ingestion	IF SWALLOWED: Immediately call a doctor. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit.
Skin contact	IF ON SKIN: Wash immediately with soap and plenty of water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it 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. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.			
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)					
Smoke, fume, oxides of carbon.					
Suitable and unsuitable extinguishing media					
In case of fire: Use Carbon dioxide (CO ₂), dry chemical, water and alcohol resistant foam.					
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. ELIMINATE all 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. Do not touch or walk through spilled material. Spill should be contained with inert material and disposed into suitable retaining area. 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					
Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails /face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. 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. Storage temperature: 16 - 27 °C.					
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: Shirts with long sleeves, long pants; 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	Faint odor		Vapour density	Not available	
Odour threshold	Not available		Relative density	Not available	
pH	Not available		Solubility	Not soluble	
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	> 100 °C		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	
Stable under normal conditions.	
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.	
Incompatible materials	
Acids, bases, amines, oxidizing agents.	
Hazardous decomposition products	
Chloro hydrogen, carbon oxides.	
Section 11. Toxicological Information	
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	
Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.	
Symptoms related to the physical, chemical and toxicological characteristics	
Skin irritation with local redness.	
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	
Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – Animal genetic toxicity studies were negative; Carcinogenicity – , the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGE BPA is not classified as a carcinogen; Reproductive Toxicity – In animal studies, did not interfere with reproduction; Specific Target Organ Toxicity — Single Exposure – Evaluation of available data suggests that this material is not an STOT-SE toxicant; Specific Target Organ Toxicity — Repeated Exposure – Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects; Aspiration Hazard – Based on physical properties, not likely to be an aspiration hazard; Health Hazards Not Otherwise Classified – No data available.	
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)	
CAS 25068-38-6 LD ₅₀ Oral - Rat - > 15,000 mg/kg; LD ₅₀ Dermal – Rabbit – 23,000 mg/kg; LC ₅₀ Inhalation – has not been determined; CAS 2425-79-8 LD ₅₀ Oral - Rat 1134 mg/kg; LD ₅₀ Dermal – Rabbit – 1130 mg/kg; LC ₅₀ Inhalation – Not available; ATE not available in this document.	
Section 12. Ecological Information	
Ecotoxicity (aquatic and terrestrial information)	
Toxicity to fish CAS: 25068-38-6 LC ₅₀ : 1.41 mg/l (Oryzias latipes) 96h; CAS 2425-79-8 LC ₅₀ 24mg/l Danio rerio (zebra fish) 96h Toxicity to Aquatic Invertebrates: CAS: 25068-38-6 EC ₅₀ : 1.7 mg/l (Crustaceans) 48h; CAS 2425-79-8 EC ₅₀ 75 mg/l (Water flea (Daphnia magna) 48h; Toxicity to Aquatic Plants: CAS 2425-79-8 EC ₅₀ > 160 mg/l (Pseudokirchneriella subcapitata) 72h; Toxicity to Bacteria Not available	
CAS: 25068-38-6: Log Kow = 2.821 estimates; CAS 2425-79-8 aerobic - Exposure time 28 d Result: 38 % -	
Persistence and degradability	Not readily biodegradable
Bioaccumulative potential	CAS: 25068-38-6: BCF = 0.56 ~ 0.67 (Exposure concentrations: 10ug/l, 5.6<= BCF=<6.8(Exposure concentrations: 1ug/l)). Biodegradability = 0 (%) 28 day.
Mobility in soil	CAS: 25068-38-6 Potential for mobility in soil is low; CAS: 2425-79-8 The product is water soluble and may spread in water systems. It will likely be mobile in the environment due to its water solubility. . Highly mobile in soils.
Other adverse effects	Harmful 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; ENVIRONMENTAL HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Résine Époxy Liquide); CLASS: 9; PG: III	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)	
UN 3082; ENVIRONMENTAL HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Résine Époxy Liquide); CLASS: 9; PG: III	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)	
UN 3082; ENVIRONMENTAL HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Résine Époxy Liquide); CLASS: 9; PG: III	
Special precautions (transport/conveyance)	None
Environmental hazards (IMDG or other)	Epoxy resin

Bulk transport (usually more than 450 L in capacity)		None
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). California Proposition 65: This product does not contain an ingredient known to the State of California to cause cancer or other reproductive harm, 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		February 04, 2018 - version 01
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	
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