



# SAFETY DATA SHEET

Issue Date 29-Apr-2018

Revision Date 29-April-2018

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** EZ Armor Epoxy B

### Other means of identification

**Product Code** 002EZAB

**UN/ID no.** 2735

**Synonyms**

### Recommended use of the chemical and restrictions on use

**Recommended Use** Concrete Coating.

**Uses advised against** No Data

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Concrete Technology Inc., 8770 133<sup>rd</sup> Ave. N., Largo, FL 33773

### Emergency telephone number

**Company Phone Number** (727) 535 4651

**24 Hour Emergency Phone Number** 800-535-5053 (United States & Canada), International Call: 1-352-323-3500

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Hazardous to the Aquatic Environment - Long Term (Chronic) Hazard Category 2	

### Label elements

#### **Emergency Overview**

#### **Hazard statements**

Toxic to Aquatic Life with Long Lasting Effects

Harmful if inhaled

Harmful if swallowed

Fatal in contact with skin

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

**Appearance** Colorless to yellowish.**Physical state** liquid**Odor** Slight**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Keep only in original container  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not get in eyes, on skin, or on clothing  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Use only outdoors or in a well-ventilated area  
 Avoid release to the environment

**Precautionary Statements - Response**

Collect spillage  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 IF IN EYES  
 Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN:  
 IF ON CLOTHING  
 Immediately call a POISON CENTER or doctor/physician  
 Remove/Take off immediately all contaminated clothing  
 Wash contaminated clothing before reuse  
 If skin irritation occurs: Get medical advice/attention  
 IF INHALED  
 Immediately call a POISON CENTER or doctor/physician  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 IF SWALLOWED  
 Rinse mouth  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Absorb spillage to prevent material damage  
 Collect spillage

**Precautionary Statements - Storage**

Store in well-ventilated place. Keep Cool. Keep container tightly closed. Store locked up.  
 Store in corrosive resistant/ .? container with a resistant inner liner

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards not otherwise classified (HNOC)****Other Information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Chemical Name	CAS No.	Weight-%	Trade Secret
Benzyl alcohol	100-51-6	30 - 60	*
1,3-Cyclohexanedimethanamine	2579-20-6	15 - 40	*
Proprietary	TRADE SECRET	10 - 30	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>General advice</b>	Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.
<b>Eye contact</b>	If eye irritation persists: Get medical advice/attention. IF IN EYES: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Eye, Skin, and Respiratory Irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically. For additional information, see Safety Data Sheet.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

**Explosion data**

**Sensitivity to Mechanical Impact** Not available.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective suit.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Wear protective gloves/protective clothing and eye/face protection.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth).

**Methods for cleaning up** Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Dispose according to local regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat. Keep from freezing. Store product above 50 degrees F/10 degrees C and below 95 degrees F/35 degrees C.

**Incompatible materials** Keep away from strong oxidizing agents, strong alkalis, and strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** Benzyl Alcohol, CAS Number 100-51-6, TWA 10.00 ppm, USA. Workplace Environmental Exposure Levels (WEEL).

**Appropriate engineering controls**

**Engineering Controls** General/Local Ventilation Recommended.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.

**Respiratory protection** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the work day.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	Slight
<b>Appearance</b>	Colorless to yellowish.	<b>Odor threshold</b>	No data available
<b>Color</b>	Transparent Liquid - May have slight color due to performance additives.		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Relevant	
Melting point / freezing point	Not Available	
Boiling point / boiling range	Not Applicable	
Flash point	104 °C 465 °F	CC (closed cup)
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Relevant	
Flammability Limit in Air		
Upper flammability limit:	No data	
Lower flammability limit:	No data	
Vapor pressure	Not Available	
Vapor density	Not Available	
Relative density	1.08 @ 70 Degrees F	
Water solubility	Insoluble in water	
Solubility in other solvents	Not Available	
Partition coefficient	Not Available	
Autoignition temperature	Not Available	
Decomposition temperature	Not Available	
Kinematic viscosity	Not Available	
Dynamic viscosity	Not Available	
Explosive properties	Not Available	
Oxidizing properties	Not Available	

### Other Information

<b>Softening point</b>	Not Relevant
<b>Molecular weight</b>	Not Available
<b>VOC Content (%)</b>	0 g/L
<b>Density</b>	Not Available
<b>Bulk density</b>	Not Available

## 10. STABILITY AND REACTIVITY

**Reactivity**  
Not Available

**Chemical stability**  
Stable under normal conditions.

**Possibility of Hazardous Reactions**  
None under normal processing. Vapors may travel to a source of ignition and flash back.

**Conditions to avoid**  
Heat, flames and sparks.

**Incompatible materials**  
Keep away from strong oxidizing agents, strong alkalis, and strong acids.

**Hazardous Decomposition Products**  
Hazardous decomposition products formed under fire conditions, carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Direct contact and vapor inhalation.
<b>Eye contact</b>	Direct contact.
<b>Skin contact</b>	Direct contact.
<b>Ingestion</b>	Direct contact.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol 100-51-6	= 1230 mg/kg ( Rat )	= 2 g/kg ( Rabbit )	= 8.8 mg/L ( Rat ) 4 h
1,3-Cyclohexanedimethanamine 2579-20-6	= 880 mg/kg ( Rat )	-	-

### Information on toxicological effects

**Symptoms** May cause an allergic skin reaction.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes.
<b>Irritation</b>	Irritating to eyes, respiratory system and skin.
<b>Sensitization</b>	May cause sensitization by inhalation.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No Data Available.
<b>Reproductive toxicity</b>	Not Available.
<b>STOT - single exposure</b>	Not Available.
<b>STOT - repeated exposure</b>	Not Available.
<b>Aspiration hazard</b>	Not Available.

### Numerical measures of toxicity - Product Information

## 12. ECOLOGICAL INFORMATION

No available data.

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	23: 48 h water flea mg/L EC50

### Persistence and degradability

No data available.

### Bioaccumulation

Bioaccumulative potential.

Chemical Name	Partition coefficient
Benzyl alcohol 100-51-6	1.1

Other adverse effects No data available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

#### DOT

UN/ID no. 2735  
 Hazard Class 8  
 Packing Group III  
 Marine pollutant No available data.

UN/ID no. 2375  
 Hazard Class 8  
 Packing Group III

UN/ID no. 2735  
 Proper shipping name 2735 - Amines, liquid, corrosive, n.o.s. (Cyclohexanedimethanamine)  
 Hazard Class 8  
 Packing Group III

UN/ID no. 2735  
 Hazard Class 8  
 Packing Group III

#### IATA

UN/ID no. 2735  
 Proper shipping name 2735 - Amines, liquid, corrosive, n.o.s. (Cyclohexanedimethanamine)  
 Hazard Class 8  
 Packing Group III

#### IMDG

UN/ID no. 2735  
 Proper shipping name 2735 - Amines, liquid, corrosive, n.o.s. (Cyclohexanedimethanamine)  
 Hazard Class 8  
 Packing Group III

UN/ID no. 2735  
 Hazard Class 8  
 Packing Group III

UN/ID no. 2735  
 Hazard Class 8  
 Packing Group III

UN Number 2735

Hazard Class 8  
Packing Group III

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No Data Available
Chronic Health Hazard	No Data Available
Fire hazard	-
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

### US State Regulations

#### California Proposition 65

unknown

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 3	Flammability 1	Instability 1	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 3	Flammability 1	Physical hazards 1	Personal protection X



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Revision Note

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**