




## SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** BELZONA® 5821 - (BASE)  
**Other means of identification:**  
SN2981 (GREY), SN2982 (YELLOW)
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses: Protective coating. For industrial user only.  
For Industrial Use Only  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**  
Belzona, Inc.  
14300 NW 60th Avenue  
33014 Miami Lakes - Florida - United States  
Phone: +1 305 594 4994  
sds@belzona.com  
www.belzona.com
- 1.4 Emergency phone number:** VelocityEHS (24/7/365):  
1-800-255-3924 [US, CANADA, PUERTO RICO & THE U.S. VIRGIN ISLANDS]  
1-813-248-0585 [INTERNATIONAL]

## SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
This product contains crystalline silica but due to its liquid state does not require classification (STOT RE)
- NFPA:**  
Health Hazards: 3  
Flammability Hazards: 0  
Instability Hazards: 0  
Special Hazards: Not applicable (N/A)
- 29 CFR 1910.1200:**  
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**
- NFPA:**
- 
- 29 CFR 1910.1200:**  
Danger
-   

- Hazard statements:**  
Eye Dam. 1: H318 - Causes serious eye damage.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**

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## SECTION 2: HAZARD(S) IDENTIFICATION (continued)

P260: Do not breathe vapors/spray.  
 P280: Wear protective gloves/protective clothing/eye protection.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a poison center/doctor.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

### 2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Non-applicable

### 3.2 Mixtures:

**Chemical description:** Epoxy resin

#### Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name	Concentration
CAS: 1675-54-3	Bis-[4-(2,3-epoxipropoxy)phenyl]propane	30 - <50 %
CAS: 14808-60-7	Quartz (RCS > 10%)	10 - <30 %
CAS: 8007-24-7	Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled	5 - <10 %
CAS: 38640-62-9	Bis(isopropyl)naphthalene	1 - <5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

CRYSTALLINE SILICA [14808-60-7] IS CARCINOGENIC AND TOXIC BY INHALATION AFTER REPEATED EXPOSURE. HOWEVER, AFTER DISPERSION IN RESIN AT PRODUCTION LEVEL, CRYSTALLINE SILICA IS NO LONGER AIRBORNE. IF THE FINISHED PRODUCT DOES NOT CONTAIN ANY AIRBORNE SILICA PARTICLES, CARCINOGENICITY AND TOXICITY BY INHALATION DO NOT APPLY WHEN CALCULATING THE HAZARDS OF THE FINISHED PRODUCT.

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

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#### SECTION 4: FIRST-AID MEASURES (continued)

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms/effects, acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary:**

Not applicable (N/A)

#### SECTION 5: FIRE-FIGHTING MEASURES

**5.1 Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

Non-applicable

**5.2 Specific hazards arising from the chemical:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Special protective equipment and precautions for fire-fighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**6.3 Methods and materials for containment and cleaning up:**

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

#### SECTION 7: HANDLING AND STORAGE

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**SECTION 7: HANDLING AND STORAGE (continued)**

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Specific storage requirements

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification	Occupational exposure limits		
	8-hour TWA PEL	200 ppm	260 mg/m <sup>3</sup>
methanol <sup>(1)</sup> CAS: 67-56-1	Ceiling Values - TWA PEL		
Diiron trioxide CAS: 1309-37-1	8-hour TWA PEL Ceiling Values - TWA PEL		10 mg/m <sup>3</sup>
Titanium dioxide (aerodynamic diameter ≤ 10 µm) CAS: 13463-67-7	8-hour TWA PEL Ceiling Values - TWA PEL		15 mg/m <sup>3</sup>
Aluminum Oxide CAS: 1344-28-1	8-hour TWA PEL Ceiling Values - TWA PEL		5 mg/m <sup>3</sup>
Barium Sulfate CAS: 7727-43-7	8-hour TWA PEL Ceiling Values - TWA PEL		0.5 mg/m <sup>3</sup>
Limestone CAS: 1317-65-3	8-hour TWA PEL Ceiling Values - TWA PEL		5 mg/m <sup>3</sup>
Aluminum Oxide CAS: 1344-28-1	8-hour TWA PEL Ceiling Values - TWA PEL		5 mg/m <sup>3</sup>
Kaolin CAS: 1332-58-7	8-hour TWA PEL Ceiling Values - TWA PEL		5 mg/m <sup>3</sup>
Titanium dioxide CAS: 13463-67-7	8-hour TWA PEL Ceiling Values - TWA PEL		15 mg/m <sup>3</sup>

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	TLV-TWA	TLV-STEL	
methanol <sup>(1)</sup> CAS: 67-56-1	200 ppm	250 ppm	
Quartz (RCS > 10%) CAS: 14808-60-7			0.025 mg/m <sup>3</sup>
Diiron trioxide CAS: 1309-37-1			5 mg/m <sup>3</sup>
Titanium dioxide (aerodynamic diameter ≤ 10 µm) CAS: 13463-67-7			0.2 mg/m <sup>3</sup>
Aluminum Oxide CAS: 1344-28-1			1 mg/m <sup>3</sup>
Barium Sulfate CAS: 7727-43-7			5 mg/m <sup>3</sup>
Limestone CAS: 1317-65-3			10 mg/m <sup>3</sup> 20 mg/m <sup>3</sup>
Aluminum Oxide CAS: 1344-28-1			1 mg/m <sup>3</sup>
Kaolin CAS: 1332-58-7			2 mg/m <sup>3</sup>
Titanium dioxide CAS: 13463-67-7			2.5 mg/m <sup>3</sup>

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
	PEL	STEL	
methanol <sup>(1)</sup> CAS: 67-56-1	200 ppm	250 ppm	260 mg/m <sup>3</sup> 325 mg/m <sup>3</sup>
Quartz (RCS > 10%) CAS: 14808-60-7			0.05 mg/m <sup>3</sup>
Diiron trioxide CAS: 1309-37-1			5 mg/m <sup>3</sup>
Aluminum Oxide CAS: 1344-28-1			2 mg/m <sup>3</sup>
Barium Sulfate CAS: 7727-43-7			0.5 mg/m <sup>3</sup>
Aluminum Oxide CAS: 1344-28-1			2 mg/m <sup>3</sup>
C.I.Pigment Blue 29 CAS: 101357-30-6			2 mg/m <sup>3</sup>

<sup>(1)</sup> Skin

**Biological limit values:**

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs®	Determinant	Sampling Time
methanol CAS: 67-56-1	15 mg/L	Methanol in urine	End of shift


**8.2 Appropriate engineering controls:**

A.- Individual protection measures, such as personal protective equipment


As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**


Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR)

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Butyl, Breakthrough time: > 480 min, Thickness: 0.5 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**40 CFR Part 59 (VOC):**

V.O.C.(weight-percent): 0 % weight  
V.O.C. at 68 °F: 0.01 kg/m<sup>3</sup> (0.01 g/L)

**California Air Resources Board (CARB) - VOC Regulatory:**

V.O.C.(weight-percent): 0 % weight  
V.O.C. at 68 °F: 0.01 kg/m<sup>3</sup> (0.01 g/L)

**South Coast Air Quality Management District (AQMD) - VOC Regulatory:**

V.O.C.(weight-percent): 0 % weight  
V.O.C. at 68 °F: 0.01 kg/m<sup>3</sup> (0.01 g/L)

**Ozone Transport Commission (OTC) Rules - VOC Regulatory:**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

V.O.C.(weight-percent):	0 % weight
V.O.C. at 68 °F:	0.01 kg/m <sup>3</sup> (0.01 g/L)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 68 °F:	Liquid
Appearance:	Viscous
Color:	Grey, Yellow
Odor:	Characteristic
Odour threshold:	Not applicable (N/A) *

**Volatility:**

Boiling point at atmospheric pressure:	559 °F
Vapour pressure at 68 °F:	12 Pa
Vapour pressure at 122 °F:	51.53 Pa (0.05 kPa)
Evaporation rate at 68 °F:	Not applicable (N/A) *

**Product description:**

Density at 68 °F:	1698.5 kg/m <sup>3</sup>
Relative density at 68 °F:	1.67 - 1.71
Dynamic viscosity at 68 °F:	Not applicable (N/A) *
Kinematic viscosity at 68 °F:	Not applicable (N/A) *
Kinematic viscosity at 104 °F:	>20.5 mm <sup>2</sup> /s
Concentration:	Not applicable (N/A) *
pH:	Not applicable (N/A) *
Vapour density at 68 °F:	Not applicable (N/A) *
Partition coefficient n-octanol/water 68 °F:	Not applicable (N/A) *
Solubility in water at 68 °F:	Not applicable (N/A) *
Solubility properties:	Insoluble in water
Decomposition temperature:	Not applicable (N/A) *
Melting point/freezing point:	Not applicable (N/A) *

**Flammability:**

Flash Point:	Non Flammable (>199.4 °F)
Flammability (solid, gas):	Not applicable (N/A) *
Autoignition temperature:	752 °F
Lower flammability limit:	Not applicable (N/A) *
Upper flammability limit:	Not applicable (N/A) *

**Particle characteristics:**

Median equivalent diameter:	Non-applicable
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**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties:	Not applicable (N/A) *
Oxidising properties:	Not applicable (N/A) *
Corrosive to metals:	Not applicable (N/A) *

\*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Heat of combustion:	Not applicable (N/A) *
Aerosols-total percentage (by mass) of flammable components:	Not applicable (N/A) *
<b>Other safety characteristics:</b>	
Surface tension at 68 °F:	Not applicable (N/A) *
Refraction index:	Not applicable (N/A) *
Total lead:	0 ppm

\*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

#### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.  
IARC: Bis-[4-(2,3-epoxipropoxy)phenyl]propane (3); Quartz (RCS > 10%) (1); Diiron trioxide (3); Titanium dioxide (aerodynamic diameter ≤ 10 µm) (2B); Mica (RCS < 1%) (1); Titanium dioxide (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitizing effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

### Other information:

Contains substances that have been listed by the International Agency for Research on Cancer (IARC) as Group 1 human carcinogens. However, exposure to such substances does not occur during normal use of products in which the substance is bound to other materials, such as rubber, inks, paints, etc., in a liquid state or polymer-encapsulated.

### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	>5000 mg/kg	>5000 mg/kg	
		>20 mg/L	
Bis(isopropyl)naphthalene CAS: 38640-62-9	>5000 mg/kg	>5000 mg/kg	
		>20 mg/L	
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7	500 mg/kg (ATEi)	1100 mg/kg (ATEi)	Rat
		>20 mg/L	
Quartz (RCS > 10%) CAS: 14808-60-7	>5000 mg/kg	>5000 mg/kg	
		>5 mg/L	

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### 12.1 Ecotoxicity (aquatic and terrestrial, where available):

#### Acute toxicity:

Identification	Concentration		Species	Genus
	LC50	EC50		
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	2 mg/L (96 h)	1.7 mg/L (48 h)	Oncorhynchus mykiss	Fish
		9.4 mg/L (72 h)	Daphnia magna	Crustacean
			Scenedesmus subspicatus	Algae

#### Chronic toxicity:

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Concentration		Species	Genus
	NOEC	Not applicable (N/A)		
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	NOEC	0.3 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability		Biodegradability	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	BOD5	Not applicable (N/A)	Concentration	Not applicable (N/A)
	COD	Not applicable (N/A)	Period	28 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	5 %
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7	BOD5	Not applicable (N/A)	Concentration	19.2 mg/L
	COD	Not applicable (N/A)	Period	28 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	96 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	BCF	31
	Pow Log	3
	Potential	Moderate
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7	BCF	882
	Pow Log	6.2
	Potential	High

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	Koc	450	Henry	Not applicable (N/A)
	Conclusion	Low	Dry soil	Not applicable (N/A)
	Surface tension	Not applicable (N/A)	Moist soil	Not applicable (N/A)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7	Koc	122.51	Henry	0E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	Not applicable (N/A)
	Surface tension	Not applicable (N/A)	Moist soil	Not applicable (N/A)

Insoluble in water

**12.5 Results of PBT and vPvB assessment:**

Non-applicable

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Disposal methods:**

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

**Waste management (disposal and evaluation):**

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

**Regulations related to waste management:**

Legislation related to waste management:

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### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

40 CFR Solid Wastes - Part 239 through 282.  
State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

### SECTION 14: TRANSPORT INFORMATION

**Other information:**

Labeling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations.

**Transport of dangerous goods by land:**

With regard to 49 CFR on the Transport of Dangerous Goods:



- 14.1 **UN number:** UN3082
- 14.2 **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
- 14.3 **Transport hazard class(es):** 9  
Labels: 9
- 14.4 **Packing group, if applicable:** III
- 14.5 **Marine pollutant:** Yes
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Under 49 CFR 171.4, Except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft

- 14.7 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



- 14.1 **UN number:** UN3082
- 14.2 **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
- 14.3 **Transport hazard class(es):** 9  
Labels: 9
- 14.4 **Packing group, if applicable:** III
- 14.5 **Marine pollutant:** Yes
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**

Special regulations: 335, 969, 274

EmS Codes: F-A, S-F

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Not applicable (N/A)

- 14.7 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:

**SECTION 14: TRANSPORT INFORMATION (continued)**



<b>14.1 UN number:</b>	UN3082
<b>14.2 UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
<b>14.3 Transport hazard class(es):</b>	9
Labels:	9
<b>14.4 Packing group, if applicable:</b>	III
<b>14.5 Marine pollutant:</b>	Yes
<b>14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises</b>	
Physico-Chemical properties:	see section 9
<b>14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>	Not applicable (N/A)

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations specific for the product in question:**

- CALIFORNIA LABOR CODE - The Hazardous Substances List: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Not applicable (N/A)
- CANADA-Domestic Substances List (DSL): *Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)* ; *Quartz (RCS > 10%) (14808-60-7)* ; *Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled (8007-24-7)* ; *Bis(isopropyl)naphthalene (38640-62-9)*
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Not applicable (N/A)
- Hazardous Air Pollutants (Clean Air Act): Not applicable (N/A)
- Massachusetts RTK - Substance List: *Quartz (RCS > 10%) (14808-60-7)*
- Minnesota - Hazardous substances ERTK: *Quartz (RCS > 10%) (14808-60-7)*
- New Jersey Worker and Community Right-to-Know Act: *Quartz (RCS > 10%) (14808-60-7)*
- New York RTK - Substance list: *Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)*
- NTP (National Toxicology Program): *Quartz (RCS > 10%) (14808-60-7)*
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): *Quartz (RCS > 10%) (14808-60-7)*
- Pennsylvania Worker and Community Right-to-Know Law: *Quartz (RCS > 10%) (14808-60-7)*
- Rhode Island - Hazardous substances RTK: Not applicable (N/A)
- The Toxic Substances Control Act (TSCA) : *Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)* ; *Quartz (RCS > 10%) (14808-60-7)* ; *Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled (8007-24-7)* ; *Bis(isopropyl)naphthalene (38640-62-9)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Not applicable (N/A)

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

**Other legislation:**

Take into consideration other applicable federal, state, and local laws and local regulations.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

**Texts of the legislative phrases mentioned in section 2:**

- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.

**Advice related to training:**

According to 29 CFR 1910.1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

**Principal bibliographical sources:**

Occupational Safety & Health Administration (OSHA).

- CONTINUED ON NEXT PAGE -

**SECTION 16: OTHER INFORMATION (continued)**

**Abbreviations and acronyms:**

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET