

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version	Revision Date:	SDS Number:	Date of last issue: 09-19-2019
9.0	03-10-2021	101199328	Date of first issue: 03-10-2021

---

BLUE CUBE OPERATIONS LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

---

### SECTION 1. IDENTIFICATION

Product name : D.E.R.™ 332 Epoxy Resin

Product code : 000000001000000215

#### Manufacturer or supplier's details

Company name of supplier : BLUE CUBE OPERATIONS LLC

Address : 190 CARONDELET PLAZA, SUITE 1530  
CLAYTON MO 63105-3467

Telephone : (844) 238-3445

E-mail address : INFO@OLIN.COM

Emergency telephone : +1 800 424 9300

Local Emergency Contact : 1-800-424-9300

Identified uses : Composites.  
Casting.  
Civil engineering.  
Tooling.  
Used in applications such as:  
Photocure industrial coating.  
Marine and protective coatings.  
Adhesives.  
Potting and encapsulation.

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2

Eye irritation : Category 2B

Skin sensitization : Sub-category 1B

#### GHS label elements

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin and eye irritation.  
May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : bis-[4-(2,3-epoxipropoxy)phenyl]propane  
CAS-No. : 1675-54-3

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Bisphenol A diglycidyl ether	1675-54-3	100

## SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air; if effects occur, consult a physician.  
In case of skin contact : Remove material from skin immediately by washing with soap

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

- and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse.  
Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
- In case of eye contact : Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. Suitable emergency eye wash facility should be available in work area.
- If swallowed : No emergency medical treatment necessary.
- Most important symptoms and effects, both acute and delayed : Aside from the information found under Description of first aid measures(above)any additional important symptoms and effects are described in Section 11: Toxicology Information.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No specific antidote.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
- 

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water fog or fine spray.  
Dry chemical fire extinguishers.  
Carbon dioxide fire extinguishers.  
Foam.  
Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.  
Water fog, applied gently may be used as a blanket for fire extinguishment.
- Unsuitable extinguishing media : Do not use direct water stream.  
May spread fire.
- Specific hazards during fire fighting : Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.  
Dense smoke is emitted when burned without sufficient oxygen.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.  
Combustion products may include and are not limited to:  
Phenolics.

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

- Carbon monoxide.  
Carbon dioxide.
- Further information : Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.  
Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container.  
Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard.  
Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.  
Water fog, applied gently may be used as a blanket for fire extinguishment.  
Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.  
Review the 'Accidental Release Measures' and the 'Ecological Information' sections of this (M)SDS.
- Special protective equipment for fire-fighters : Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).  
Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.  
For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Isolate area.  
Keep unnecessary and unprotected personnel from entering the area.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to section 7, Handling, for additional precautionary measures.
- Environmental precautions : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.
- Methods and materials for containment and cleaning up : Contain spilled material if possible.  
Absorb with materials such as:  
Sand.  
Polypropylene fiber products.  
Polyethylene fiber products.

**D.E.R.™ 332 Epoxy Resin**

Version	Revision Date:	SDS Number:	Date of last issue: 09-19-2019
9.0	03-10-2021	101199328	Date of first issue: 03-10-2021

---

Remove residual with soap and hot water.  
Collect in suitable and properly labeled containers.  
Residual can be removed with solvent. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent Safety Data Sheet for handling information and exposure guidelines.  
See Section 13, Disposal Considerations, for additional information.

---

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Avoid prolonged or repeated contact with skin.  
Avoid contact with eyes, skin, and clothing.  
Wash thoroughly after handling.  
Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire.  
Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire.  
Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.  
See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.
- Conditions for safe storage : Recommended pumping and storage temperature for bulk shipments is  
60°C (140°F)  
Additional storage and handling information on this product may be obtained by calling your sales or customer service contact.  
Ask for a product brochure.
- Recommended storage temperature : 36 - 109 °F / 2 - 43 °C
- Storage period : 24 Months

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.  
Local exhaust ventilation may be necessary for some operations.

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

### Personal protective equipment

- Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator.
- Filter type : The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.
- Hand protection
- Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ('EVAL'). Nitrile/butadiene rubber ('nitrile' or 'NBR'). Neoprene. Polyvinyl chloride ('PVC' or 'vinyl'). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
- Eye protection : Use safety glasses (with side shields).
- Skin and body protection : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : viscous liquid
- Color : light yellow
- Odor : Odorless to mild
- Odor Threshold : No test data available
- pH : Not applicable
- Melting point/range : Not applicable
- Freezing point : No test data available

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

Boiling point/boiling range : 608 °F / 320 °C  
Method: Differential Scanning Calorimetry (DSC)  
Decomposition

Flash point : 507 - 514 °F / 264 - 268 °C  
(102.89 hPa)  
Method: EC Method A9, closed cup

Evaporation rate : No test data available

Flammability (liquids) : Not expected to be a static-accumulating flammable liquid.

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapor pressure : < 0.0000001 Pa (77 °F / 25 °C)  
Method: EC Method A4

Relative vapor density : 1.16 (77 °F / 25 °C)  
Literature

Relative density : 1.16 (68 °F / 20 °C)  
Method: Literature

Solubility(ies)  
Water solubility : 5.4 - 8.4 mg/l (68 °F / 20 °C)  
pH: 6.12 - 6.64  
Method: EC Method A6

Partition coefficient: n-octanol/water : log Pow: 3.242 (77 °F / 25 °C)  
pH: 7.1  
Method: Estimated.

Autoignition temperature : No test data available

Decomposition temperature : No test data available

Viscosity  
Viscosity, dynamic : 5,000 mPa,s (77 °F / 25 °C)  
Method: ASTM D 445  
Literature

Viscosity, kinematic : No test data available

Explosive properties : No  
Method: EEC A14

Oxidizing properties : No

Molecular weight : Not determined

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

Particle size : Not determined

Note: These are the Reference Points for these Physical Properties listed above, unless otherwise noted in their respective Physical Property value information: Boiling Point at 760 mmHg; Evaporation Rate Butyl Acetate = 1; Relative Vapor Density Air = 1; and Relative Density Water = 1.

NOTE: The physical data presented above are typical values and should not be construed as a specification.

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions : Will not occur by itself.  
Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

Conditions to avoid : Avoid short term exposures to temperatures above 300°C (572°F)  
  
Potentially violent decomposition can occur above 350°C (662°F)  
  
Avoid prolonged exposure to temperatures above 250°C (482°F)  
  
Generation of gas during decomposition can cause pressure in closed systems.  
Pressure build-up can be rapid.

Incompatible materials : Avoid contact with oxidizing materials.  
Avoid contact with:  
Acids.  
Bases.  
Avoid unintended contact with amines.

Hazardous decomposition products : Decomposition products depend upon temperature, air supply and the presence of other materials.  
Gases are released during decomposition.  
Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

#### Components:

#### Bisphenol A diglycidyl ether:

Acute oral toxicity : LD50 (Rat): > 15,000 mg/kg



**D.E.R.™ 332 Epoxy Resin**

Version	Revision Date:	SDS Number:	Date of last issue: 09-19-2019
9.0	03-10-2021	101199328	Date of first issue: 03-10-2021

---

Acute inhalation toxicity : Remarks: The LC50 has not been determined.

Acute dermal toxicity : LD50 (Rabbit): 23,000 mg/kg

**Skin corrosion/irritation****Components:****Bisphenol A diglycidyl ether:**

Result : Skin irritation  
Remarks : Prolonged contact may cause skin irritation with local redness.  
Repeated contact may cause skin irritation with local redness.

**Serious eye damage/eye irritation****Product:**

Result : Mild eye irritation  
Remarks : May cause eye irritation.  
May cause slight corneal injury.

**Components:****Bisphenol A diglycidyl ether:**

Result : Mild eye irritation  
Remarks : May cause eye irritation.  
May cause slight corneal injury.

**Respiratory or skin sensitization****Product:**

Assessment : The product is a skin sensitizer, sub-category 1B.  
Remarks : For similar material(s):  
Has caused allergic skin reactions in humans.  
Has demonstrated the potential for contact allergy in mice.

**Components:****Bisphenol A diglycidyl ether:**

Assessment : The product is a skin sensitizer, sub-category 1B.  
Remarks : Has caused allergic skin reactions in humans.  
Has demonstrated the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
No relevant data found.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: In vitro genetic toxicity studies were negative in some cases and positive in other cases.

Genotoxicity in vivo : Remarks: Animal genetic toxicity studies were negative.

**D.E.R.™ 332 Epoxy Resin**

Version            Revision Date:            SDS Number:            Date of last issue: 09-19-2019  
9.0                03-10-2021                101199328                Date of first issue: 03-10-2021

---

**Components:****Bisphenol A diglycidyl ether:**

Genotoxicity in vitro            :    Remarks: In vitro genetic toxicity studies were negative in some cases and positive in other cases.  
Animal genetic toxicity studies were negative.

**Carcinogenicity****Components:****Bisphenol A diglycidyl ether:**

Remarks                            :    Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEbPA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEbPA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEbPA is carcinogenic.

**IARC**                                No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**                                No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**                                 No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:****Bisphenol A diglycidyl ether:**

Effects on fertility                :    Remarks: In animal studies, did not interfere with reproduction.

Effects on fetal development    :    Remarks: Resins based on the diglycidyl ether of bisphenol A (DGEbPA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

**STOT-single exposure****Components:****Bisphenol A diglycidyl ether:**

Assessment                         :    Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## D.E.R.™ 332 Epoxy Resin

Version	Revision Date:	SDS Number:	Date of last issue: 09-19-2019
9.0	03-10-2021	101199328	Date of first issue: 03-10-2021

---

**Repeated dose toxicity****Components:****Bisphenol A diglycidyl ether:**

Remarks : 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 toxicity****Components:****Bisphenol A diglycidyl ether:**

Based on physical properties, not likely to be an aspiration hazard.

---

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Components:****Bisphenol A diglycidyl ether:**

Toxicity to fish : Remarks: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Scenedesmus capricornutum (fresh water algae)): 11 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.3 mg/l  
End point: number of offspring  
Exposure time: 21 d  
Test Type: semi-static test

MATC (Maximum Acceptable Toxicant Level) (Daphnia magna (Water flea)): 0.55 mg/l  
End point: number of offspring  
Exposure time: 21 d  
Test Type: semi-static test

Toxicity to microorganisms : IC50 (Bacteria): > 42.6 mg/l  
Exposure time: 18 h

**D.E.R.™ 332 Epoxy Resin**

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

**Persistence and degradability****Components:****Bisphenol A diglycidyl ether:**

Biodegradability : Result: Not biodegradable.  
Remarks: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

aerobic

Biodegradation: 12 %

Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

Remarks: 10-day Window: Not applicable

ThOD : 2.35 mg/mg

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitizer: OH radicals  
Rate constant: 6.69E-11 cm<sup>3</sup>/s  
Method: Estimated.

**Bioaccumulative potential****Components:****Bisphenol A diglycidyl ether:**

Bioaccumulation : Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient: n-octanol/water : log Pow: 3.242 (77 °F / 25 °C)  
Method: Estimated.

**Mobility in soil****Components:****Bisphenol A diglycidyl ether:**

Distribution among environmental compartments : Koc: 1800 - 4400  
Method: Estimated.  
Remarks: Potential for mobility in soil is low (Koc between 500 and 2000).  
Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

**Other adverse effects****Components:****Bisphenol A diglycidyl ether:**

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

---

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.

THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information.

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

---

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy resin)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)

##### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Epoxy resin)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passen- : 964

---

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

---

ger aircraft)

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy resin)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
Remarks : Stowage category A

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

---

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Skin corrosion or irritation  
Serious eye damage or eye irritation  
Respiratory or skin sensitization

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

#### California Prop. 65

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

### International Regulations

Montreal Protocol (Ozone Depleting Substances) : Not applicable

# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version	Revision Date:	SDS Number:	Date of last issue: 09-19-2019
9.0	03-10-2021	101199328	Date of first issue: 03-10-2021

---

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

**The ingredients of this product are reported in the following inventories:**

- CH INV : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- DSL : All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.
- AICS : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- NZIoC : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- ENCS : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- ISHL : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- KECI : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- PICCS : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- IECSC : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- TCSI : All intentional components are listed on the inventory, are exempt, or are supplier certified.
- TSCA : All substances listed as active on the TSCA Inventory or are not required to be listed.

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

---

### SECTION 16. OTHER INFORMATION

#### Further information

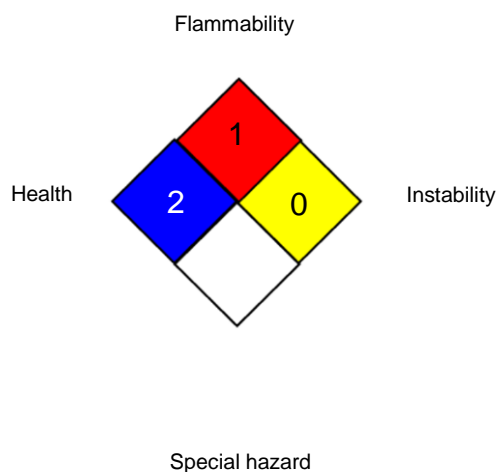
# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version 9.0      Revision Date: 03-10-2021      SDS Number: 101199328      Date of last issue: 09-19-2019  
Date of first issue: 03-10-2021

### NFPA 704:



### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



# SAFETY DATA SHEET



## D.E.R.™ 332 Epoxy Resin

Version	Revision Date:	SDS Number:	Date of last issue: 09-19-2019
9.0	03-10-2021	101199328	Date of first issue: 03-10-2021

---

Revision Date : 03-10-2021

BLUE CUBE OPERATIONS LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

US / Z8