

# SAFETY DATA SHEET



## D.E.R.™ 530-A80 Epoxy Resin

Version 8.0      Revision Date: 03-18-2021      SDS Number: 101198411      Date of last issue: 08-01-2016  
Date of first issue: 03-18-2021

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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.

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### SECTION 1. IDENTIFICATION

Product name : D.E.R.™ 530-A80 Epoxy Resin

Product code : 000000001000001097

#### 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 : Used in applications such as:  
Electrical laminate for printed wire board manufacturing.

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### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapor.  
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**

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P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

Static-accumulating flammable liquid.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer	26265-08-7	>= 75 - <= 85
Acetone	67-64-1	>= 15 - <= 25

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

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- In case of skin contact : Remove material from skin immediately by washing with soap 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.
- If swallowed : If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- 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 : Maintain adequate ventilation and oxygenation of the patient.  
No specific antidote.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
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### 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.
- Unsuitable extinguishing media : Do not use direct water stream.  
Straight or direct water streams may not be effective to extinguish fire.
- Specific hazards during fire fighting : Container may rupture from gas generation in a fire situation.  
Electrically ground and bond all equipment.  
Flammable mixtures of this product are readily ignited even by static discharge.  
Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.  
Flammable mixtures may exist within the vapor space of containers at room temperature.  
Flammable concentrations of vapor can accumulate at tempe-

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- ratures above flash point; see Section 9.  
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:  
Phenolic compounds.  
Hydrogen bromide.  
Carbon monoxide.  
Carbon dioxide.
- Further information : Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate.  
Water may not be effective in extinguishing fire.  
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.  
Eliminate ignition sources.  
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.
- 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.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate area.  
Only trained and properly protected personnel must be involved in clean-up operations.  
Keep personnel out of low areas.  
Keep upwind of spill.  
Ventilate area of leak or spill.  
No smoking in area.  
Eliminate all sources of ignition in vicinity of spill or released

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vapor to avoid fire or explosion.  
Vapor explosion hazard. Keep out of sewers.  
For large spills, warn public of downwind explosion hazard.  
Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment.  
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 : Pump with explosion-proof equipment. If available, use foam to smother or suppress.  
Contain spilled material if possible.  
Absorb with materials such as:  
Sand.  
Polypropylene fiber products.  
Polyethylene fiber products.  
Collect in suitable and properly labeled containers.  
Remove residual with soap and hot water.  
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.

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### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Keep away from heat, sparks and flame.  
Keep container closed.  
Avoid prolonged or repeated contact with skin.  
Avoid breathing vapor.  
Use with adequate ventilation.  
Do not swallow.  
Wash thoroughly after handling.  
Never use air pressure for transferring product.  
No smoking, open flames or sources of ignition in handling and storage area.  
Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.  
Electrically bond and ground all containers and equipment before transfer or use of material.  
Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.  
Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation.  
This product is a poor conductor of electricity and can become

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electrostatically charged, even in bonded or grounded equipment. If sufficient charge is accumulated, ignition of flammable mixtures can occur.  
 Handling operations that can promote accumulation of static charges include but are not limited to mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations.  
 See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage : Flammable mixtures may exist within the vapor space of containers at room temperature.  
 Minimize sources of ignition, such as static build-up, heat, spark or flame.  
 Keep container closed.

Recommended storage temperature : 36 - 109 °F / 2 - 43 °C

Storage period : 24 Months

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Acetone	67-64-1	TWA	200 ppm	OLIN OEL
		STEL	350 ppm	OLIN OEL
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	750 ppm 1,800 mg/m <sup>3</sup>	OSHA P0
		STEL	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA P0
		TWA	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA Z-1

## Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGIH BEI

Engineering measures : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or

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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.

### 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 emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
- Filter type : The following should be effective types of air-purifying respirators: Organic vapor cartridge.
- Hand protection
- Remarks : Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
- Eye protection : Use safety glasses (with side shields).  
If exposure causes eye discomfort, use a full-face respirator.
- Skin and body protection : No precautions other than clean body-covering clothing should be needed.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid.
- Color : yellow
- Odor : Acetone.
- Odor Threshold : No test data available
- pH : Not determined
- Melting point/range : Not applicable
- Freezing point : Not determined
- Boiling point/boiling range : 133 °F / 56 °C  
Method: Literature  
Acetone

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Flash point : -4 °F / -20 °C  
Method: Tag Closed Cup ASTM D56, closed cup  
Acetone

Evaporation rate : No test data available

Flammability (liquids) : Static-accumulating flammable liquid.

Upper explosion limit / Upper flammability limit : 13.0 %(V)  
Method: Literature  
Acetone

Lower explosion limit / Lower flammability limit : 2.5 %(V)  
Method: Literature  
Acetone

Vapor pressure : 181.7 mmHg (68 °F / 20 °C)  
Method: Literature  
Acetone

Relative vapor density : 2.00  
Method: Literature  
Acetone

Relative density : 1.18 - 1.22 (77 °F / 25 °C)  
Method: Literature

Density : 9.90 - 10.10 g/cm<sup>3</sup> (77 °F / 25 °C)  
Method: ASTM D1963

Solubility(ies)  
Water solubility : Mild

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : Not determined

Decomposition temperature : No test data available

Viscosity  
Viscosity, dynamic : 1,500 - 2,500 mPa,s (77 °F / 25 °C)  
Method: ASTM D 445

Viscosity, kinematic : No test data available

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : Not determined



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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.

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### 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 temperatures above 200 °C  
  
Potentially violent decomposition can occur above 250 °C  
  
Generation of gas during decomposition can cause pressure in closed systems.  
Pressure build-up can be rapid.  
Avoid static discharge.
- Incompatible materials : Avoid contact with oxidizing materials.  
Avoid contact with:  
Acids.  
Bases.  
Avoid unintended contact with amines.
- Hazardous decomposition products : Toxic gases are released during decomposition.  
Uncontrolled exothermic reaction of brominated epoxy resins release phenolics, carbon monoxide, hydrogen bromide, and water
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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

- Acute oral toxicity : Remarks: Low toxicity if swallowed.  
Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.  
  
LD50 (Rat): > 4,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : Remarks: Excessive exposure to solvent(s) may cause respiratory irritation and central nervous system depression.
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Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness.

Remarks: As product:  
The LC50 has not been determined.

Acute dermal toxicity : Remarks: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### Components:

#### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: Vapors are unlikely due to physical properties.  
For respiratory irritation and narcotic effects:  
No relevant data found.

Remarks: The LC50 has not been determined.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Acetone:**

Acute oral toxicity : LD50 (Rat): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Result : No skin irritation  
Remarks : Prolonged exposure not likely to cause significant skin irritation.

### **Components:**

#### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Result : Skin irritation  
Remarks : Brief contact may cause moderate skin irritation with local

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redness.

**Acetone:**

Result : No skin irritation  
 Remarks : Essentially nonirritating to skin.  
 May cause drying and flaking of the skin.

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

Result : No eye irritation  
 Remarks : Essentially nonirritating to eyes.  
 Vapor may cause eye irritation experienced as mild discomfort and redness.

**Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Remarks : May cause slight temporary eye irritation.  
 Corneal injury is unlikely.

**Acetone:**

Result : Eye irritation  
 Remarks : May cause severe eye irritation.  
 May cause slight corneal injury.  
 Effects may be slow to heal.  
 Vapor may cause eye irritation experienced as mild discomfort and redness.

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

Remarks : Contains component(s) which have not demonstrated the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
 No relevant information found.

**Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Remarks : Did not demonstrate the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
 No relevant data found.

**Acetone:**

Assessment : Does not cause skin sensitization.  
 Remarks : Did not cause allergic skin reactions when tested in guinea pigs.

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Remarks : For respiratory sensitization:  
No relevant data found.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: The data presented are for the following material:  
Acetone.  
In vitro genetic toxicity studies were predominantly negative.

#### Components:

##### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Genotoxicity in vitro : Remarks: In vitro genetic toxicity studies were negative.  
Animal genetic toxicity studies were negative.

##### **Acetone:**

Genotoxicity in vitro : Remarks: In vitro genetic toxicity studies were predominantly  
negative.

### Carcinogenicity

#### Product:

Remarks : No relevant data found.

#### Components:

##### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Remarks : No relevant data found.

##### **Acetone:**

Remarks : No relevant data found.

**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

#### Product:

Effects on fertility : Remarks: The data presented are for the following material:  
Acetone.  
In animal studies, did not interfere with reproduction.

Effects on fetal development : Remarks: The data presented are for the following material:  
Acetone.

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Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

### Components:

#### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Effects on fertility : Remarks: No relevant data found.

Effects on fetal development : Remarks: No relevant data found.

#### **Acetone:**

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

Effects on fetal development : Remarks: Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

### **STOT-single exposure**

#### Product:

Assessment : Contains component(s) which are classified as specific target organ toxicant, single exposure, category 3.

### Components:

#### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

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

#### **Acetone:**

Routes of exposure : Inhalation

Target Organs : Nervous system

Assessment : May cause drowsiness or dizziness.

### **Repeated dose toxicity**

#### Product:

Remarks : Contains component(s) which have been reported to cause effects on the following organs in animals:  
Kidney.  
Liver.  
Blood.  
Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone. Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

### Components:

#### **Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Remarks : Based on available data, repeated exposures are not

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anticipated to cause significant adverse effects.

**Acetone:**

## Remarks

: Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. In animals, effects have been reported on the following organs:  
 Blood.  
 Kidney.  
 Liver.  
 Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone.

**Aspiration toxicity****Product:**

No aspiration toxicity classification

**Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

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

**Acetone:**

May be harmful if swallowed and enters airways.

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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Toxicity to fish : Remarks: The EC50 value is above the water solubility.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.030 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 96 h  
 Test Type: Static  
 Method: OECD Test Guideline 201 or Equivalent

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.030 mg/l

End point: Growth rate inhibition  
 Exposure time: 96 h  
 Test Type: Static  
 Method: OECD Test Guideline 201 or Equivalent

Toxicity to daphnia and other aquatic invertebrates (Chron- : NOEC (Daphnia magna (Water flea)): 0.023 mg/l  
 Exposure time: 21 d

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ic toxicity)      Test Type: flow-through test  
Method: OECD Test Guideline 211 or Equivalent

LOEC (Daphnia magna (Water flea)): > 0.023 mg/l  
Exposure time: 21 d  
Test Type: flow-through test  
Method: OECD Test Guideline 211 or Equivalent

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: Other guidelines

NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: Other guidelines

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### Acetone:

Toxicity to fish : Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 5,500 - 6,100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6,084 mg/l  
Exposure time: 48 h  
Method: Method Not Specified.

LC50 (Ceriodaphnia dubia (water flea)): 8,098 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 11,800 - 14,400 mg/l  
End point: Biomass  
Exposure time: 5 d

Toxicity to microorganisms : IC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD 209 Test

Toxicity to terrestrial organisms : dietary LC50 (Coturnix japonica (Japanese quail)): > 20,000 ppm  
Remarks: Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

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**Persistence and degradability****Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Material is not readily biodegradable according to OECD/EEC guidelines.

Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: 10-day Window: Fail

**Acetone:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Biodegradation: 91 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Pass

Biochemical Oxygen Demand (BOD) : 69.1 %  
Incubation time: 5 d

72.7 %  
Incubation time: 10 d

73.6 %  
Incubation time: 20 d

ThOD : 2.20 mg/mg  
Method: Estimated.

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitizer: OH radicals  
Rate constant: 2.04E-13 cm<sup>3</sup>/s  
Method: Estimated.

**Bioaccumulative potential****Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Partition coefficient: n-octanol/water : log Pow: 7.4  
Method: Estimated.  
Remarks: Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

**Acetone:**

Bioaccumulation : Species: Fish



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Bioconcentration factor (BCF): 0.69  
Method: Measured

Partition coefficient: n-octanol/water : log Pow: -0.24  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Mobility in soil****Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Distribution among environmental compartments : Koc: > 5000  
Method: OECD 121: HPLC Method  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**Acetone:**

Distribution among environmental compartments : Koc: 0.37 - 2.0  
Method: Estimated.  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

**Other adverse effects****Components:****Bisphenol A, epichlorohydrin and tetrabromobisphenol A polymer:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Acetone:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

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**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

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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.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 1866  
Proper shipping name : RESIN SOLUTION  
Class : 3  
Packing group : II  
Labels : 3

##### IATA-DGR

UN/ID No. : UN 1866  
Proper shipping name : Resin solution  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

##### IMDG-Code

UN number : UN 1866  
Proper shipping name : RESIN SOLUTION  
  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no  
Remarks : Stowage category B

#### 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

UN/ID/NA number : UN 1866  
Proper shipping name : Resin solution  
  
Class : 3  
Packing group : II  
Labels : FLAMMABLE LIQUID  
ERG Code : 127  
Marine pollutant : no

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**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** : Flammable (gases, aerosols, liquids, or solids)  
 Hazard not otherwise classified (physical hazards)  
 Specific target organ toxicity (single or repeated exposure)

**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

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.

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- 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.

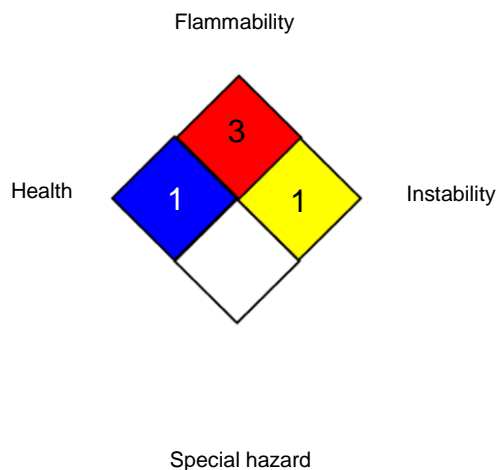
No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



### Full text of other abbreviations

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
- OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

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1910.1000  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA P0 / STEL : Short-term exposure limit  
OSHA Z-1 / TWA : 8-hour time weighted average

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

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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 condi-

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tions 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.

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