

# SAFETY DATA SHEET



## D.E.H.™ 517 Epoxy Curing Agent

Version 6.1      Revision Date: 06-10-2021      SDS Number: 101211628      Date of last issue: 11-10-2020  
Date of first issue: 06-10-2021

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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.H.™ 517 Epoxy Curing Agent

Product code : 000000001000000072

#### 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 : 800-424-9300/703-741-5970

Identified uses : Hardener for epoxy resin.

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### SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitization : Category 1

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

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- If inhaled : Move person to fresh air; if effects occur, consult a physician.
- In case of skin contact : Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse.  
Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.  
Suitable emergency safety shower facility should be immediately available.
- In case of eye contact : Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.  
Suitable emergency eye wash facility should be immediately available.
- If swallowed : Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.
- 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 : Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist.  
If burn is present, treat as any thermal burn, after decontamination.  
Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done.  
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.

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- 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.
- 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:  
Nitrogen oxides.  
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.  
Burning liquids may be extinguished by dilution with water. 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.  
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.

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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 upwind of spill.

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Ventilate area of leak or spill.  
Refer to section 7, Handling, for additional precautionary measures.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

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.  
Collect in suitable and properly labeled containers.  
See Section 13, Disposal Considerations, for additional information.  
Avoid contact with absorbent materials such as:  
Ground corn cobs.  
Moist organic absorbents.  
Peat moss.  
Sawdust.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor.  
Do not swallow.  
Avoid prolonged or repeated contact with skin.  
Keep container closed.  
Use with adequate ventilation.  
Wash thoroughly after handling.  
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 : Store in a cool, dry place.  
Avoid contact with metals such as:  
Brass.  
Bronze.  
Copper.  
Copper alloys.

Recommended storage temperature : 32 - 86 °F / 0 - 30 °C

Storage period : 24 Months

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
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		exposure)	concentration	
Triethylenetetramine mixture	112-24-3	TWA	1 ppm	US WEEL

**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.

### 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 discomfort is experienced, use an approved air-purifying respirator.

**Filter type** : The following should be effective types of air-purifying respirators: Organic vapor cartridge.

**Hand protection**

**Remarks** : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ('EVAL'). Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ('latex'). Neoprene. Nitrile/butadiene rubber ('nitrile' or 'NBR'). Polyvinyl alcohol ('PVA'). Polyvinyl chloride ('PVC' or 'vinyl'). Viton. 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 chemical goggles.

**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** : Liquid.

**Color** : Yellow

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Odor : Amine.

Odor Threshold : No test data available

pH : Not applicable

Melting point/range : Not applicable

Freezing point : No test data available

Boiling point/boiling range : 531 °F / 277 °C  
Method: Literature  
(based on major component)

Flash point : > 298 °F / > 148 °C  
Method: closed cup

Evaporation rate : No test data available

Flammability (solid, gas) : Not applicable to liquids

Upper explosion limit / Upper flammability limit : 7.2 %(V)  
Method: Literature

Lower explosion limit / Lower flammability limit : 0.7 %(V)  
Method: Literature

Vapor pressure : < 0.01 kPa (68 °F / 20 °C)  
Method: Literature  
(based on major component)

Relative vapor density : 5 (68 °F / 20 °C)  
Method: Literature  
(major component)

Relative density : 1.01  
Method: Literature

Solubility(ies)  
Water solubility : Slightly soluble

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

Autoignition temperature : 635 °F / 335 °C  
Method: Literature

Decomposition temperature : No test data available

Viscosity  
Viscosity, dynamic : 100 - 150 cP (77 °F / 25 °C)

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Method: ASTM D 445

Viscosity, kinematic : No test data available

Explosive properties : No data available

Oxidizing properties : No data available

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

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

Possibility of hazardous reactions : Polymerization will not occur.

Conditions to avoid : Exposure to elevated temperatures can cause product to decompose.  
Generation of gas during decomposition can cause pressure in closed systems.  
Reaction with carbon dioxide may form an amine carbamate.  
Smoke may be generated depending on vapor pressure of mixture.  
Product absorbs carbon dioxide from the air.

Incompatible materials : Avoid contact with oxidizing materials.  
Avoid contact with:  
Acids.  
Acrylates.  
Alcohols.  
Aldehydes.  
Halogenated hydrocarbons.  
Ketones.  
Avoid contact with metals such as:  
Brass.  
Bronze.  
Copper alloys.  
Avoid contact with absorbent materials such as:  
Ground corn cobs.  
Moist organic absorbents.  
Peat moss.  
Sawdust.

Hazardous decomposition products : Decomposition products depend upon temperature, air supply and the presence of other materials.  
Decomposition products can include and are not limited to:  
Ammonia.  
Ethylenediamine.  
Volatile amines.



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## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

Eye contact  
 Skin contact  
 Inhalation  
 Ingestion

**Acute toxicity**

Harmful if swallowed or in contact with skin.  
 Swallowing may result in burns of the mouth, throat, and gastrointestinal tract.

**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.  
 Swallowing may result in burns of the mouth and throat.  
 Swallowing may result in gastrointestinal irritation or ulceration.

Remarks: As product:  
 Single dose oral LD50 has not been determined.

LD50 (Rat): 1,061 mg/kg  
 Method: Estimated.  
 Remarks: For the major component(s):

Acute inhalation toxicity : Remarks: Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

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

Acute dermal toxicity : Remarks: Prolonged or widespread skin contact may result in absorption of potentially harmful amounts.

Remarks: As product:  
 The dermal LD50 has not been determined.

LD50 (Rabbit): 1,465 mg/kg  
 Method: Estimated.  
 Remarks: For the major component(s):

**Components:****Triethylenetetramine mixture:**

Acute oral toxicity : LD50 (Rat, male and female): 1,716 mg/kg

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

Acute dermal toxicity : LD50 (Rabbit): 1,465 mg/kg



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ical burns may occur.

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

Result	:	Corrosive
Method	:	OECD Test Guideline 405
Remarks	:	May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Remarks	:	For the major component(s): Has caused allergic skin reactions in humans. Individuals having an allergic skin reaction to this product may have an allergic skin reaction to similar material(s). Ethylenediamine. Diethylenetriamine. Piperazine. Aminoethylethanolamine (AEEA).
Remarks	:	For respiratory sensitization: No relevant data found.

**Components:****Triethylenetetramine mixture:**

Assessment	:	May cause sensitization by skin contact.
Remarks	:	Has caused allergic skin reactions in humans. Has demonstrated the potential for contact allergy in mice. Has caused allergic skin reactions when tested in guinea pigs. Individuals having an allergic skin reaction to this product may have an allergic skin reaction to similar material(s). The similar material(s) is/are: Ethylenediamine (EDA). Diethylenetriamine. Piperazine. Aminoethylethanolamine (AEEA).
Remarks	:	For respiratory sensitization: No relevant data found.

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

Assessment	:	The product is a skin sensitizer, sub-category 1A.
Remarks	:	Has demonstrated the potential for contact allergy in mice.
Remarks	:	For respiratory sensitization:

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No data available

**Germ cell mutagenicity**

Not classified based on available information.

**Product:**

Genotoxicity in vitro : Remarks: For the major component(s):  
In vitro genetic toxicity studies were negative in some cases  
and positive in other cases.

**Components:****Triethylenetetramine mixture:**

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.

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

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

**Carcinogenicity**

Not classified based on available information.

**Product:**

Remarks : For the major component(s):  
Did not cause cancer in laboratory animals.

**Components:****Triethylenetetramine mixture:**

Remarks : Did not cause cancer in laboratory animals.

**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**

Not classified based on available information.

**Product:**

Effects on fertility : Remarks: No relevant data found.

Effects on fetal development : Remarks: Laboratory animals that were fed exaggerated doses  
of Triethylenetetraamine(TETA) showed adverse fetal effects that were believed to be associated with an observed  
copper deficiency.  
Exposures having no effect on the mother should have no

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effect on the fetus.

**Components:****Triethylenetetramine mixture:**

Effects on fertility                                :    Remarks: No relevant data found.

Effects on fetal development                :    Remarks: Laboratory animals that were fed exaggerated doses of Triethylenetetraamine(TETA) showed adverse fetal effects that were believed to be associated with an observed copper deficiency.  
Exposures having no effect on the mother should have no effect on the fetus.

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

Effects on fertility                                :    Remarks: Screening studies suggest that this material does not affect reproduction.

Effects on fetal development                :    Remarks: Screening studies in animals suggest that this material does not affect fetal development.

**STOT-single exposure**

Not classified based on available information.

**Product:**

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

**Components:****Triethylenetetramine mixture:**

Assessment                                        :    Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

**STOT-repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Product:**

Remarks    :    For the major component(s):  
In animals, effects have been reported on the following organs:  
Liver.

**Components:****Triethylenetetramine mixture:**

Remarks    :    In animals, effects have been reported on the following organs:  
Lung.

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**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Aspiration toxicity**

Not classified based on available information.

**Product:**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**Components:****Triethylenetetramine mixture:**

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

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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Components:****Triethylenetetramine mixture:**

Toxicity to fish	:	<p>Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). May increase pH of aquatic systems to &gt; pH 10 which may be toxic to aquatic organisms.</p> <p>LC50 (Pimephales promelas (fathead minnow)): 330 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent</p>
Toxicity to daphnia and other aquatic invertebrates	:	<p>EC50 (Daphnia magna (Water flea)): 31.1 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent</p>
Toxicity to algae/aquatic plants	:	<p>EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l End point: Growth rate inhibition Exposure time: 72 h Test Type: semi-static test Method: OECD Test Guideline 201 or Equivalent</p>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	<p>NOEC (Daphnia magna (Water flea)): 1.9 mg/l End point: number of offspring Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 or Equivalent</p>



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**Bioaccumulative potential****Components:****Triethylenetetramine mixture:**

Partition coefficient: n-octanol/water : log Pow: -2.65  
Method: Estimated.  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Mobility in soil****Components:****Triethylenetetramine mixture:**

Distribution among environmental compartments : Koc: 4.1 - 310  
Method: Estimated.  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Other adverse effects****Components:****Triethylenetetramine mixture:**

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).

**Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer:**

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.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE



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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 1760
Proper shipping name	:	CORROSIVE LIQUID, N.O.S. (Triethylenetetramine mixture, Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer)
Class	:	8
Packing group	:	II
Labels	:	8

**IATA-DGR**

UN/ID No.	:	UN 1760
Proper shipping name	:	Corrosive liquid, n.o.s. (Triethylenetetramine mixture, Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer)
Class	:	8
Packing group	:	II
Labels	:	Corrosive
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851

**IMDG-Code**

UN number	:	UN 1760
Proper shipping name	:	CORROSIVE LIQUID, N.O.S. (Triethylenetetramine mixture, Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer)
Class	:	8
Packing group	:	II
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	yes
Remarks	:	Stowage category B

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### 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 1760  
Proper shipping name : Corrosive liquids, n.o.s.  
(Triethylenetetramine mixture, Epichlorohydrin, Bisphenol A and Triethylenetetramine Polymer)  
Class : 8  
Packing group : II  
Labels : CORROSIVE  
ERG Code : 154  
Marine pollutant : no

### 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.

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## 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** : Serious eye damage or eye irritation  
Respiratory or skin sensitization  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation

**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

Triethylenetetramine mixture 112-24-3

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### International Regulations

Montreal Protocol : 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:**

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|--------|---|--|
| 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.  |
| AICS   | : | 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. |
| ENCS   | : | not determined   |
| ISHL   | : | not determined   |
| 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.                                       |
| NZIoC  | : | not determined   |
| CH INV | : | All intentional components are listed on the inventory, are exempt, or are supplier certified.                                       |

### 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

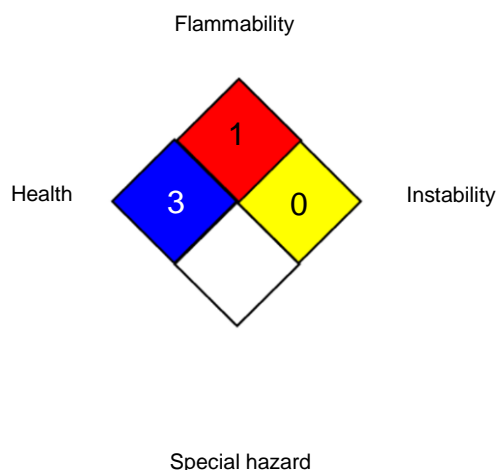
# SAFETY DATA SHEET



## D.E.H.™ 517 Epoxy Curing Agent

Version 6.1      Revision Date: 06-10-2021      SDS Number: 101211628      Date of last issue: 11-10-2020  
Date of first issue: 06-10-2021

### NFPA 704:



### Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
US WEEL / TWA : 8-hr TWA

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 -

# SAFETY DATA SHEET



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United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 06-10-2021

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.

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