

SAFETY DATA SHEET



D.E.R.® 915 Epoxy Resin

Version 8.0 Revision Date: 03-18-2021 SDS Number: 101197461 Date of last issue: 05-29-2019
Date of first issue: 03-18-2021

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.® 915 Epoxy Resin
Product code : 000000001000001209

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:
Marine and protective coatings.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Eye irritation : Category 2B
Skin sensitization : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Warning
Hazard Statements : May cause an allergic skin reaction.
Causes eye irritation.
Precautionary Statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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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.
P363 Wash contaminated clothing 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 : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	50 - 60
Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100)	69761-19-9	>= 30 - <= 45
Modified epoxy resin	Trade secret	<= 5

Actual concentration is withheld as a trade secret

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 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.

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- 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 : 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 : To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.
- Specific hazards during fire fighting : This material will not burn until the water has evaporated.
Residue can burn.
- Hazardous combustion products : Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds.
Combustion products may include and are not limited to:
Phenolic compounds.
Carbon monoxide.
Carbon dioxide.
- Further information : Keep people away. Isolate fire and deny unnecessary entry.
To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.
- 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).
If protective equipment is not available or not used, fight fire from a protected location or safe distance.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Isolate area.
Keep unnecessary and unprotected personnel from entering the area.
Spilled material may cause a slipping hazard.
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.

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- 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.
Recover spilled material if possible.
Absorb with materials such as:
Sand.
Sawdust.
Vermiculite.
Clay.
Collect in suitable and properly labeled containers.
Water may be used for final cleaning of affected area.
Wash water should be disposed of in accordance with local regulations.
See Section 13, Disposal Considerations, for additional information.
-

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with eyes.
Avoid prolonged or repeated contact with skin.
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 at temperatures above 0° C (32° F) to prevent freezing.
Keep container closed.
Store in a cool, dry place.
- Recommended storage temperature : 36 - 109 °F / 2 - 43 °C
- Storage period : 15 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.

Personal protective equipment

- Respiratory protection : Under intended handling conditions, no respiratory protection should be needed.

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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 : Liquid.

Color : white

Odor : Odorless

Odor Threshold : No test data available

pH : 6 - 7
Method: Literature

Melting point/range : Not applicable

Freezing point : No test data available

Boiling point/boiling range : ≥ 212 °F / ≥ 100 °C
Method: Literature
(water)

Flash point : Method: closed cup
(water-based product)

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

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Lower explosion limit / Lower flammability limit : Not applicable

Vapor pressure : No test data available

Relative vapor density : No test data available

Relative density : 1.075 (77 °F / 25 °C)
Method: Literature

Solubility(ies)
Water solubility : Miscible with water in all proportions
Method: Literature

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

Autoignition temperature : Not applicable

Decomposition temperature : No test data available

Viscosity
Viscosity, dynamic : No test data available
Viscosity, kinematic : No test data available

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : No test 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.

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 : Active ingredient decomposes at elevated temperatures.

Incompatible materials : Avoid contact with:

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Acids.
Bases.
Avoid unintended contact with amines.

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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Remarks: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

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

LD50 (Rat): > 5,000 mg/kg
Method: Estimated.
Remarks: Based on information for component(s):

Acute inhalation toxicity : Remarks: Vapors are unlikely due to physical properties. No adverse effects are anticipated from single exposure to dust.

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.

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

LD50 (Rabbit): > 5,000 mg/kg
Method: Estimated.
Remarks: Based on information for component(s):

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: Estimated.
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Single dose oral LD50 has not been determined. Typical for this family of materials.

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

Acute dermal toxicity : Remarks: The dermal LD50 has not been determined.
LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Typical for this family of materials.

Modified epoxy resin:

Acute oral toxicity : LD50 (Rat): > 2,100 mg/kg
Remarks: May cause abdominal discomfort or diarrhea.

Acute inhalation toxicity : Remarks: Vapors are unlikely due to physical properties.
Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs.
Remarks: The LC50 has not been determined.

Acute dermal toxicity : LD50 (Rabbit, male): > 10.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Result : No skin irritation
Remarks : Brief contact is essentially nonirritating to skin.

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

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

Modified epoxy resin:

Result : Skin irritation
Remarks : Brief contact may cause moderate skin irritation with local redness.
Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Serious eye damage/eye irritation

Product:

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

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Components:**Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

Result : Eye irritation
Remarks : May cause slight eye irritation.
Corneal injury is unlikely.
Solid or dust may cause irritation or corneal injury due to mechanical action.

Modified epoxy resin:

Result : Corrosive
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**Product:**

Assessment : May cause sensitization by skin contact.
Remarks : Has caused allergic skin reactions when tested in guinea pigs.
Remarks : For respiratory sensitization:
No relevant information found.

Components:**Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

Assessment : May cause sensitization by skin contact.
Remarks : Has caused allergic skin reactions when tested in guinea pigs.
Remarks : For respiratory sensitization:
No relevant data found.

Modified epoxy resin:

Remarks : Did not cause allergic skin reactions when tested in humans.
Remarks : For respiratory sensitization:
No relevant data found.

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Remarks: For the major component(s):
Some similar resins have shown genetic toxicity in in vitro tests, while others have not.

Components:**Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

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Genotoxicity in vitro : Remarks: Some similar resins have shown genetic toxicity in in vitro tests, while others have not.

Modified epoxy resin:

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

Carcinogenicity

Product:

Remarks : For the major component(s):
Similar epoxy resin did not cause cancer in long-term animal studies.

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

Remarks : Similar epoxy resin did not cause cancer in long-term animal studies.

Modified epoxy resin:

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: No relevant data found.

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

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

Effects on fertility : Remarks: No relevant data found.

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

Modified epoxy resin:

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

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Effects on fetal development : Remarks: Available data are inadequate for evaluation of potential to cause birth defects.
Available data are inadequate for evaluation of potential to cause fetotoxicity.

STOT-single exposure**Product:**

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

Components:**Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

Modified epoxy resin:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated dose toxicity**Product:**

Remarks : For the major component(s):
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Components:**Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

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

Modified epoxy resin:

Remarks : May cause abdominal discomfort or diarrhea.

Aspiration toxicity**Product:**

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

Components:**Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

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

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Modified epoxy resin:

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

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

Toxicity to fish : Remarks: Based on information for a similar material:
Not expected to be acutely toxic, but may cause adverse effects by physical/mechanical means.

Modified epoxy resin:

Toxicity to fish : Remarks: Material is slightly toxic to fish on an acute basis (LC50 between 10 and 100 mg/L).

LC50 (Oryzias latipes (Orange-red killifish)): 68 mg/l
Exposure time: 96 h
Method: Method Not Specified.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 36 mg/l
Exposure time: 48 h

Persistence and degradability**Components:****Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):**

Biodegradability : Remarks: This water-insoluble polymeric solid is expected to be inert in the environment.
Surface photodegradation is expected with exposure to sunlight.
No appreciable biodegradation is expected.

Modified epoxy resin:

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

Inoculum: Activated sludge, non-adapted
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: 10-day Window: Fail

Photodegradation : Test Type: Half-life (indirect photolysis)

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Sensitizer: OH radicals
Rate constant: 2.31E-11 cm³/s
Method: Estimated.

Bioaccumulative potential

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

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

Modified epoxy resin:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 3.47 - 3.78
Method: Measured

Partition coefficient: n-octanol/water : Remarks: No data available for this product.

Mobility in soil

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

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

Modified epoxy resin:

Distribution among environmental compartments : Remarks: No specific, relevant data available for assessment.

Other adverse effects

Components:

Modified reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight 700 - 1100):

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

Modified epoxy resin:

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 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

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

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

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

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	:	not determined
NZIoC	:	not determined
ENCS	:	not determined
ISHL	:	not determined
KECI	:	not determined
PICCS	:	not determined
IECSC	:	The product contains an intentional component that is not on the inventory., The product contains an intentional component that is subject to a restriction. Production and/or use is limited by the conditions of the restriction., Additional information on this product may be obtained by calling your sales or customer service contact.
TCSI	:	The product contains an intentional component that is not on the inventory., The product contains an intentional component that is subject to a restriction. Production and/or use is limited by the conditions of the restriction., Additional information on this product may be obtained by calling your sales or customer service contact.

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TSCA : All substances listed as active on the TSCA Inventory or are not required to be listed.

TSCA list

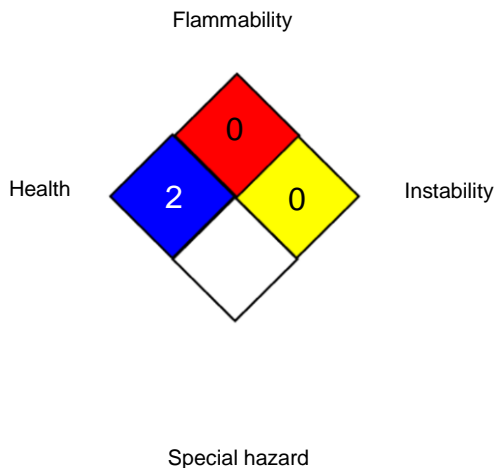
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

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 Pre-

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vention 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 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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