



BDC EPOXY SYSTEMS

GHS Safety Data Sheet

Date of Preparation: 05/07/15

1. Product and Company Identification

Product Names: BDC3300P - Pigmented - Resin

Product Class: Epoxy Resin

Manufacturer: B. D. Classic Enterprizes, Inc.
12903 Sunshine Avenue
Santa Fe Springs, CA 90670

Telephone: 562-944-6177

Emergency: 800-424-9300 (ChemTrec)

2. Hazard Identification

Form: Viscous liquid.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin irritation – Category 2

Eye irritation – Category 2A

Skin sensitization – Sub category 1B

Acute aquatic toxicity – Category 2

Chronic aquatic toxicity – Category 2

Label Elements



Hazard pictograms:

Emergency Overview: **WARNING!**

Hazards

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear eye protection/face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove con

tact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Collect spillage.

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

Other hazards:
No data available
See Section 11 for more detailed information on health effects and symptoms.

3. Composition/Information on Ingredients

Synonyms: Liquid Epoxy Resin

This product is a substance.

Ingredient Name	CAS Number	%
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	70-100%
OXIRANE, MOMO [(C12-14-ALKYLOXY)METHYL] DERVIS	68609-97-2	<15%
Titanium Dioxide	13463-67-7	2-30%
Proprietary		< 15%

4. First Aid Measures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Skin Contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. For contact with hot product, flush contaminated skin with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze. Get medical attention immediately.
Inhalation:	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion:	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of First Aid Personnel:	In the event of body contact with molten material, immediately cool with running water; do not attempt to remove material from skin. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to Physician:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-Fighting Measures

Flammability of Product:	In a fire or if heated, a pressure increase will occur and the container may burst.
<u>Extinguishing Media:</u>	
Suitable	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.
Not Suitable	Do not use direct water stream. May spread fire.
Special Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Smoke may contain the original material in addition to combustion products of varying compositions which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics, Carbon monoxide, Carbon dioxide. No action shall be taken involving any personal risk or without suitable training.
Hazardous Combustion Products	Decomposition products may include the following materials: carbon oxides. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.
Special Protective Equipment for Fire Fighters:	Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large Spill:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a

Small Spill: designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Stop leak if without risk. Move containers from spill area. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

7. Handling and Storage

Handling: Avoid prolonged or repeated contact with skin. Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire. See Section 8, Exposure Controls and Personal Protection

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Note: This resin may be handled, shipped and stored at elevated temperature in bulk. Recommended pumping and storage temperature for bulk shipments if 60 degrees C (140 degrees F).
Storage temperature: 2 – 43 degrees C (36 – 109 degrees F)
Shelf Life – Use within 24 months

8. Exposure Controls/Personal Protection

Control Parameters: None established

Recommended Monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering Measures: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing

	before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vap or cartridge with a particulate pre-filter.
Eyes:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Skin:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental Exposure Controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Appearance	Viscous liquid
Flash Point	Closed cup 264-268 degree C (507-514 degrees F) at 102.89 hPaEC Method A9
Auto-Ignition Temperature	Not Available
Flammable limits	
Lower:	Not applicable
Upper:	Not applicable
Color	Colorless to yellow
pH	Not available
Boiling Point	320 degrees C (608 degrees F) Differential Scanning Calorimetry (DSC) Decomposition
Relative Density	1.16 at 20 degrees C (68 degrees F)/20 degrees C Literature
Vapor Pressure	<0.0000001 Pa EC Method A4
Odor Threshold	Not available
Viscosity	Dynamic – 11,000 – 14,000 mPa.s at 25 degrees C (77 degrees F) ASTM D 445
Water Solubility	5.4 – 8.4 mg/l at 20 degree C (68 degrees F) EU Method A.6
Partition coefficient: n-Octanol/water	Log Pow: 3.242 Estimated
Evaporation rate	Not available
Vapor Density	Not available

10. Stability and Reactivity

Chemical Stability	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to Avoid	Avoid short term exposures to temperatures above 300 degrees C. Potentially violent decomposition can occur above 350 degrees C. Avoid prolonged exposure to temperatures above 250 degrees C. Generation of gas during decomposition can cause pressure in closed systems.

	Pressure build up can be rapid. Avoid contact with oxidizing materials. Avoid contact with: Acids, Bases. Avoid unintended contact with amines.
Materials to Avoid	Reactive or incompatible with the following materials: oxidizing materials, strong acids, strong alkalis
Other Hazards	Reacts with considerable heat release with some curing agents
Hazardous Decomposition Products	Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.
Reactivity	No data available

11. Toxicological Information

<u>Acute toxicity</u>	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.									
	<table><tr><td>LD50 Oral</td><td>Rat</td><td>30,000 mg/kg</td></tr><tr><td>LD50 Oral</td><td>Mouse</td><td>20,000 mg/kg</td></tr><tr><td>LD50 Oral</td><td>Rabbit</td><td>19.8 mg/kg</td></tr></table>	LD50 Oral	Rat	30,000 mg/kg	LD50 Oral	Mouse	20,000 mg/kg	LD50 Oral	Rabbit	19.8 mg/kg
LD50 Oral	Rat	30,000 mg/kg								
LD50 Oral	Mouse	20,000 mg/kg								
LD50 Oral	Rabbit	19.8 mg/kg								
<u>Acute dermal toxicity</u>	Prolonged skin contact is unlikely to result in absorption of harmful amounts.									
	<table><tr><td>LD50 Dermal</td><td>Rabbit</td><td>23,000 mg/kg</td></tr><tr><td>LD50 Dermal</td><td>Rat</td><td>>1,200 mg/kg</td></tr><tr><td>LD50 Dermal</td><td>Mouse</td><td>> 1,270 mg/kg</td></tr></table>	LD50 Dermal	Rabbit	23,000 mg/kg	LD50 Dermal	Rat	>1,200 mg/kg	LD50 Dermal	Mouse	> 1,270 mg/kg
LD50 Dermal	Rabbit	23,000 mg/kg								
LD50 Dermal	Rat	>1,200 mg/kg								
LD50 Dermal	Mouse	> 1,270 mg/kg								
<u>Acute inhalation toxicity</u>	At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.									
<u>Skin Corrosion/irritation</u>	Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness									
<u>Serious eye damage/eye irritation</u>	May cause eye irritation. Corneal injury is unlikely.									
<u>Sensitization</u>	For similar material(s): Has caused allergic skin reactions in humans. Has demonstrated the potential for contact allergy in mice. For respiratory sensitization: No relevant data found.									
<u>Specific Target Organ Systemic Toxicity (single Exposure)</u>	Evaluation of available data suggests that this material is not an STOT-SE toxicant.									
<u>Specific Target Organ Systemic Toxicity (Repeated Exposure)</u>	Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.									
<u>Teratogenicity</u>	Resins based on the diglycidyl ether of bisphenol A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.									

<u>Reproductive toxicity</u>	In animal studies, did not interfere with reproduction.
<u>Mutagenicity</u>	In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.
<u>Aspiration Hazard</u>	Based on physical properties, not likely to be an aspiration hazard.
<u>Other Toxicological Information</u>	
<u>Carcinogenicity</u>	Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). The most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that GDEBPA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic.
Classification	
	ACGIH Not Classified
	IARC Not Classified
	NTP Not Classified
	OSHA Not Classified
	EEC Not Classified

12. Ecological Information

Toxicity	Acute toxicity to fish. Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50) between 1 and 10 mg/L in the most sensitive species tested) LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 2 mg/l.
	Acute toxicity to aquatic invertebrates. EC50, Daphnia magna (Water flea), static test, 48 hour, 1.8 mg/l
	Acute toxicity to algae/aquatic plants C50, Scenedesmus capricornutum (fresh water algae, static test, 72 Hour, Growth rate inhibition, 1 mg/l
	Toxicity to bacteria IC50, Bacteria, 18 Hour, Respiration rates, >42.6 mg/l
	Chronic aquatic toxicity Chronic toxicity to aquatic invertebrates MATC (Maximum Acceptable Toxicant Level), Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 0.55 mg/l
Persistence and degradability	Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day Window: Not applicable Biodegradation: 12% Exposure time: 28d Method: OECD Test Guideline 302B or Equivalent. Theoretical Oxygen Demand: 2.35 mg/mg Estimated.

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 1.92 hour

Method: Estimated.

Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Lo Pow between 3 and 5

Partition coefficient: n-octanol/water(log Pow): 3.242 at 25 degrees C Estimated.

Mobility in soil

Potential for mobility in soil is low (Koc between 500 and 2000)

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient (Koc): 1800-4400 Estimated.

Other Adverse effects

No known significant effects or critical hazards

13. Disposal Considerations

Waste Disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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 the SDS Section: Composition Information. For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14: Transport Information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (EPOXY RESIN)

UN Number

UN 3082

Class

9

Packing group

III

Marine pollutant

Epoxy Resin

Transport in bulk

Consult IMO regulations before transporting

According to Annex

ocean bulk

I or II of MARPOL
73/78 and the IBC or
IGC Code

Classification for AIR transport (IATA/ICAO):

Proper Shipping name:	ENVIRONMENTALLY HAZARDOUS SUB-STANCE, LIQUID, N.O.S. (EPOXY RESIN)
UN Number	UN 3082
Class	9
Packing Group	III

CFR	Non-Regulated
TDG	Non-Regulated

15. Regulatory Information

US Regulations

OSHA Hazard
Communication
Standard

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal
Regulations

Superfund Amendments and Reauthorization Act of 1986 Title III
(Emergency Planning and Community Right –to-Know Act of 1986)
Section 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.

SARA Sections 311 and 312
Acute Health Hazard

United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

State Regulations

SARA 301 Extremely Hazardous Substances – None required

Massachusetts RTK Substances – None required

New jersey RTK Hazardous Substances – None required

Pennsylvania RTK Hazardous Substances – 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.

Canada

WHMIS (Canada)
Canadian lists

Class D-2B: material causing other toxic effects (Toxic)
Canadian NPRI: None Required.

International Regulations

Chemical Inventories

Europe inventory – All components are listed or exempted

Australia inventory (AICS) – All components are listed or exempted

China inventory (IECSC) – All components are listed or exempted

Korea inventory (KECI) – All components are listed or exempted

Philippines inventory (PICCS) – All components are listed or exempted

Japan inventory (ENCS) – All components are listed or exempted
Canada inventory – All components are listed or exempted
United States inventory (TSCA 8b)– All components are listed or exempted

16. Other Information

Hazardous Material Information System III (U.S.A.)	Health: 1 Flammability: 1 Reactivity: 2 Chronic:
-------------------------------------------------------------------	---------------------------------------------------------------------

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on MSDSs under CFR 1910.1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material

The information provided herein was believed by B. D. Classic Enterprizes, Inc. (B. D. Classic) to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by B. D. Classic are subject to B. D. Classic's terms and conditions of sale. **B. D. CLASSIC MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY B. D. CLASSIC**, except that the product shall conform to B. D. Classic specifications. Nothing contained herein constitutes an offer for the sale of any product.

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

1. Identification

Product identifier used on the label

BDC 3300 HARDENER

Recommended use of the chemical and restriction on use:

Floor Coating. Industrial Maintenance Coating.

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

B.D. Classic Enterprises

P.O. 2445

Santa Fe Springs, CA 90670

562-944-6177

Emergency telephone number

CHEMTREC: 1-800-424-9300

Other means of identification

Chemical family: mixed amine

Synonyms: mixed amine

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Classification of the product

Met. Corrosion	Category 1
Acute Toxicity - Oral	Category 4
Skin Corrosion	Category 2
Serious Eye Damage	Category 1
Skin Sensitization -	Category 1

Label Elements

Pictogram:



Signal

Word: Danger

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

Hazard Statement:

May be corrosive to metals

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Precautionary Statements (Prevention):

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Precautionary Statements (Disposal):

Disposal of contents/container to be specified in accordance with regulations.

Hazards not otherwise classified

Harmful if swallowed.

Components of the product may affect the nervous system.

Severe respiratory irritant.

Severe skin irritant.

Severe eye irritant.

May cause sensitization by skin contact.

3. Composition / Information on Ingredients

Components	CAS Number	Concentration (Weight)
Polyetheramine	39423-51-3	< 50 %
Benzyl alcohol	100-51-6	< 35 %
Isophoronediamine (IPD)	2855-13-2	< 25 %
Nonylphenol	84852-15-3	< 25 %
Trimethylhexamethylenediamine (TMD)	25620-58-0	< 5 %
Proprietary	Proprietary	< 15 %

CHEMICAL FAMILY: Cycloaliphatic Amine

4. First-Aid Measures

Description of first aid measures

General advice:

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

If inhaled:

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

If on skin:

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eyespecialist.

If swallowed:

Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Most important symptoms and effects, both acute and delayed:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Neurological disorders. Asthma. Skin disorders and Allergies. Eye disease.

Note to physician

Treatment: Application of corticosteroid cream has been effective in treating skin irritation.

5. Fire-Fighting Measures

Extinguishing media

Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical. Dry sand. Limestone powder.

Special hazards arising from the substance or mixture

May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire-fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

Advice for fire-fighters

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Impact Sensitivity:

Remarks: No data available.

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental precautions

Construct a dike to prevent spreading

Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Keep container tightly closed.

Storage stability: Do not store in reactive metal containers. Keep container dry because product takes up the humidity of air.

8. Exposure Controls/Personal Protection

Engineering Measures

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator when ventilation is inadequate. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

Hand protection:

Butyl-rubber, nitrile rubber, neoprene, PVC disposable, or otherwise impervious gloves should be worn.

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit, long-sleeve shirts, trousers without cuffs.

General safety and hygienemeasures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Hands and/or face should be washed before breaks and at the end of the shift. When using, do not eat, drink or smoke. Remove contaminated clothing. Discard contaminated leather articles.

Exposure limit(s)

Benzyl alcohol	Time Weighted Average (TWA): WEEL	10 ppm	44.20 mg/m3
----------------	-----------------------------------	--------	-------------

9. Physical and Chemical Properties

Form:	liquid
Odor:	Ammoniacal
Color:	Clear, Colorless
pH value:	Alkaline, 11-12
Melting point:	No data available
Boiling point:	> 210 °C
Flash point:	> 100 °C (ASTM D93)
Flammability:	Not flammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Autoignition:	No data available
Vapor pressure:	< 1.00 mmHg at 70 °F (21 °C)
Density:	61.804 lb/ft3 (0.99 g/cm3) at 70 °F (21 °C)
Viscosity, Dynamic	1500-2000 CPS
Solubility in Water	Not very soluble < 1%
Evaporation rate:	< Ether

10. Stability and Reactivity

Corrosion to metals:

May be corrosive to metals

Chemical Stability:

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

Stable under normal conditions.

Conditions to avoid:

No data available.

Materials to avoid:

Sodium hypochlorite. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

Hazardous decomposition products:

Aldehydes. Flammable hydrocarbon fragments. Nitrosamine. Nitrogen oxides (NO_x). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Ammonia. Nitric acid. Carbon monoxide. Carbon dioxide (CO₂)

Possibility of hazardous Reactions/Reactivity:

No data available.

11. Toxicological information

Information on toxicological effects

Likely routes of exposure

Effects on Eye:

Severe eye irritation.

Effects on Skin:

If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

Inhalation Effects:

May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion Effects:

Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.

Symptoms:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause Sore throat. Neurological disorders, Asthma, Skin disorders and Allergies, Eye disease.

Acute toxicity

Acute Oral Toxicity:

LD50 : > 50 - < 200 mg/kg Species : Rat.

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

Inhalation:	No data is available on the product itself. Inhalation - Components Benzyl alcohol: LC50 (4 h): > 4.178 mg/l OECD Test Guideline 403 Species: Rat.
Acute Dermal Toxicity:	LD50 : > 2,000 mg/kg Species : Rabbit.
Skin corrosion/irritation:	Severe skin irritation. Corrosive to the skin of a rabbit.
Serious Eye Damage/Eye Irritation:	Severe eye irritation
Sensitization:	May cause sensitization by skin contact

Chronic Toxicity or Effects from Long Term Exposures

Carcinogenicity:	No data available
Reproductive Toxicity:	No data is available on the product itself
Germ Cell Mutagenicity:	No data is available on the product itself
Specific Target Organ Systemic Toxicity (single exposure):	No data is available
Specific Target Organ Systemic Toxicity (repeated exposure):	No data is available

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas. Neurological disorders, Asthma, Skin disorders and Allergies, Eyedisease.

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

12. Ecological Information

EcoToxicity Effects

Aquatic toxicity: No data available on the product itself

Toxicity to fish:

Benzyl alcohol	LC50 (96 h) : 10 mg/l	Species : Bluegill sunfish (<i>Lepomis macrochirus</i>).
Benzyl alcohol	LC50 (96 h) : 460 mg/l	Species : Fathead minnow (<i>Pimephales promelas</i>).

Toxicity to algae:

Benzyl alcohol	IC50 (72 h) : 700 mg/l	Species : Algae.
----------------	------------------------	------------------

Toxicity to other organisms: No data available.

Persistence and degradability

Biodegradability: No data is available on the product itself.

Mobility: No data available.

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

Bioaccumulation: No data is available on the product itself.

Bioaccumulation:

Benzyl alcohol: Low bioaccumulation potential.

13. Disposal Considerations

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization. Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S., (Trimethylhexane-1,6-diamine)
Marine Pollutant:	No

Sea transport

IMDG

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S., (Trimethylhexane-1,6-diamine)
Marine Pollutant:	No

Air transport

IATA/ICAO

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S., (Trimethylhexane-1,6-diamine)
Marine Pollutant:	No

15. Regulatory Information

Toxic Substance Control Act (TSCA) 12(b)

Safety Data Sheet

BDC 3300 CLEAR - HARDENER

Revision date: 2015/08/18

Component(s):None.

COUNTRY	REGULATORY LIST	NOTIFICATION
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification:
Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:
None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any otherharm.

16. Other Information

HMIS Rating

Health : 3
Flammability : 1
Physical hazard : 0

SDS Prepared by:

B.D. Classic Enterprises

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of B. D. Classic Enterprises, Inc. Product Safety Program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information obtained herein. Data sheets are available for all B. D. Classic products. You are urged to obtain data sheets for all B. D. Classic products you buy, process, use or distribute and you are encouraged and requested to advise those who may come in contact with such products of the information contained therein.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. B. D. Classic does not undertake to furnish advice on such matters.