Date of Preparation: 05/07/15

GHS Safety Data Sheet

#### 1. Product and Company Identification

Product Names: BDC Vapor Seal - 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-epoxyproposy)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. Ger 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 cook 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:

Extinguishing Media:

xunguisning Media: Suitable may burst.

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.

In a fire or if heated, a pressure increase will occur and the container

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 ouch 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

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

designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the

same hazard as the spilled product.

Small Spill: 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 is 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 If this product contains ingredients with exposure limits, personal,
Monitoring workplace atmosphere or biological monitoring may be required to
Procedures: 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. 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

**Hygiene Measures:** 

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 airpurifying 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.

Emissions from ventilation or work process equipment should be **Environmental Exposure Controls:** 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

Viscous liquid Appearance

Closed cup 264-268 degree C (507-514 degrees F) at 102.89 hPaEC **Flash Point** 

Method A9

**Auto-Ignition** Not Available

**Temperature** Flammable limits

Lower: Not applicable Not applicable Upper: Colorless to yellow Color Not available pН

**Boiling Point** 320 degrees C (608 degrees F) Differential Scanning Calorimetry (DSC)

**Decomposition** 

1.16 at 20 degrees C (68 degrees F)/20 degrees C Literature **Relative Density** 

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-

Octonaol/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 exposes 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 hot 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

Acute toxicity Very low toxicity if swallowed. Harmful effects not anticipated from

swallowing small amounts.

LD50 Oral Rat 30,000 mg/kg LD50 Oral Mouse 20,000 mg/kg LD50 Oral Rabbit 19.8 mg/kg

Acute dermal toxicity Prolonged skin contact is unlikely to result in absorption of harmful

amounts.

LD50 Dermal Rabbit 23,000 mg/kg LD50 Dermal Rat >1,200 mg/kg LD50 Dermal Mouse > 1,270 mg/kg

Acute inhalation 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.

Skin Prolonged contact may cause skin irritation with local redness.

**Corrosion/irritation** Repeated contact may cause skin irritation with local redness

Serious eye damage/eye

irritation

toxicity

May cause eye irritation. Corneal injury is unlikely.

**Sensitization** 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.

**Specific Target Organ** 

Systemic Toxicity (single Exposure)

Evaluation of available data suggests that this material is not an STOT-

SE toxicant.

**Specific Target Organ Systemic Toxicity** 

(Repeated Exposure)

Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any

significant adverse effects.

Teratogenicity Resins based on the diglycidyl ether of bisphenol A (DGEBPA) did not

cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure,

or when pregnant rats or rabbits were exposed orally.

Mutagenicity In vitro genetic toxicity studies were negative in some cases and positive

in other cases. Animal genetic toxicity studies were negative.

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

#### **Other Toxicological Information**

## **Carcinogenicity Classification**

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBPA). 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 DGEBPA is carcinogenic.

ACGIH Not Classified NACC 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 pohotolysis)

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

Partician 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 SUB-STANCE,

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 Ш **Packing Group** 

**CFR** Non-Regulated TDG Non-Regulated

#### 15. Regulatory Information

**US Regulations** 

Commincation

**OSHA Hazard** This product is a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Standard

U.S. Federal Superfund Amendments and Reauthorization Act of 1986 Title III Regulations

(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.

SARA 301 Extremely Hazardous Substances – None required

**State Regulations** 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) Class D-2B: material causing other toxic effects (Toxic)

Canadian lists 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 Health: 1
Information System III Flammability: 1
(U.S.A.) 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.

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#### 1. Identification

#### Product identifier used on the label

#### **BDC VAPOR SEAL HARDENER**

#### Recommended use of the chemical and restriction on use

#### Floor 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 EnterprisesP.O. 2445Santa 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

FLAMMABLE LIQUIDS
SKIN CORROSION/IRRITATION
SERIOUS EYE DAMAGE/ EYE IRRITATION
SKIN SENSITIZATION
TOXIC TO REPRODUCTION (Unborn child)
TOXIC TO REPRODUCTION (Fertility)

- Category 1
- Category 1
- Category 1
- Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1

#### **Label Elements**

Pictogram:



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Signal Word: Danger

Hazard Statement:

Combustible liquid.

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

May damage the unborn child. Suspected of damaging fertility.

May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

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.

### 3. Composition / Information on Ingredients

Ingredient name	%	CAS number
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	25 - 70	186321-96-0
Benzyl Alcohol	10 – 35	100-51-6
Isophorone diamine	5 – 15	2855-13-2
metaxylenediamine	5 – 10	1477-55-0
Bisphenol A	5 – 10	80-05-7
3-aminopropyldimethylamine	1 – 5	109-55-7
2,4,6-tris(dimethylaminomethyl)phenol	1 – 5	90-72-2
Salicylic acid	1 - 5	69-72-7
Proprietary	< 15	Trade Secret

#### 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

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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

#### Flash Point

Closed cup: 85.5°C (185.9°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]

#### **Extinguishing media**

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam

#### **Unsuitable Extinguishing Media**

Do not use water jet

#### Special hazards arising from the substance or mixture

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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#### **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.

#### Further information:

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

#### Impact Sensitivity:

Remarks: No data available.

#### 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**

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage

#### Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).

Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### 7. Handling and Storage

#### Handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up.

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Eliminate all ignition sources. Separate from oxidizing materials. 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..

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**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### 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.

#### 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.

#### Eve 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 hygiene measures:

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)

Metaxylenediamine	ACGIH TLV (United States, 4/2014). Absorbed through skin.	0.1 mg/m

Revision date: 2015/08/20

#### 9. Physical and Chemical Properties

Form: liquid

Odor: Ammoniacal
Color: Amber, Brown
pH value: Alkaline, 11
Melting point: No data available

Boiling point: > 135 °C

Flash point: > 85 °C (DIN 51758 EN 22719 (Pensky-Martens Closed Cup)

Flammability: Not flammable
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable
Autoignition: No data available
Vapor pressure: Not available

Density: 1.03 g/cm3) at 68 °F (20 °C)

Viscosity, Dynamic 500-1400 CPS
Solubility in Water Partially soluble
Evaporation rate: < Ether

#### 10. Stability and Reactivity

Chemical Stability:

Stable under normal conditions.

Conditions to avoid:

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid:

Reactive or incompatible with oxidizing materials.

Hazardous decompositionproducts:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardousReactions/Reactivity:

No data available.

#### 11. Toxicological information

#### Acute Toxicity:

Product/ingredient name	Test	Endpoint	Species	Result
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat - Male, Female	>2000 mg/kg

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	OECD 423 Acute Oral toxicity - Acute Toxic Class Method	LD50 Oral	Rat - Female	>2000 mg/kg
Benzyl Alcohol	OECD 403 Acute	LC50 Inhalation Dusts	Rat - Male, Female	>4178 mg/m³
	Inhalation Toxicity OECD 401 Acute Oral Toxicity	and mists LD50 Oral	Rat - Male	1620 mg/kg
Isophorone diamine	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male	1030 mg/kg
metaxylenediamine	OECD 403 Acute Inhalation Toxicity	LC50 Inhalation Dusts and mists	Rat - Male, Female	1.34 mg/l
	No official guidelines Internal method	LD50 Dermal	Rat - Male, Female	>3100 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male, Female	930 mg/kg
Bisphenol A	Unknown guidelines	LC50 Inhalation Dusts and mists	Rat - Male, Female	>170 mg/m³
	Unknown guidelines OECD 401 Acute Oral Toxicity	LD50 Dermal LD50 Oral	Rabbit - Male Rat - Male, Female	6400 mg/kg 2000 to 5000 mg/ kg
3-aminopropyldimethylamine		LC50 Inhalation Vapor	Rat - Male, Female	24.8 mg/l
	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat	>1000 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male, Female	410 mg/kg
2,4,6-tris (dimethylaminomethyl) phenol	Unknown guidelines	LD50 Dermal	Rat - Male	>971 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male, Female	2169 mg/kg
Salicylic acid	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat - Male, Female	>2000 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat	891 mg/kg

### Irritation/Corrosion:

Product/ingredient name	Test	Species	Result
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	OECD OECD 439- In Vitro Skin Irritation - Reconstructed Human Epidermis Test Method	Human skin model	Skin - Irritant
	OECD Bovine Corneal Opacity and Permeability Test Method for Identifying Ocular Corrosives and Severe Irritants	Mammal - species unspecified	Eyes - Severe irritant
Benzyl Alcohol	OECD 404 Acute Dermal	Rabbit	Skin - Non-irritant.
	Irritation/Corrosion OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Irritant

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Isophorone diamine	-	Rabbit	Skin - Corrosive
	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Corrosive
metaxylenediamine	EU	Rat	Skin - Corrosive
Bisphenol A	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Non-irritant.
	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Severe irritant
3-aminopropyldimethylamine	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Corrosive
2,4,6-tris(dimethylaminomethyl) phenol	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Corrosive
	EPA CFR	Rabbit	Eyes - Corrosive
Salicylic acid	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Non-irritant.
	-	Rabbit	Eyes - Severe irritant

#### 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 canresult in respiratory failure. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritationof respiratory system.

Ingestion Effects:

Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathingdifficulties. 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: 1,000 mg/kg Species: Rat.

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 : > 2,800 mg/kg Species : Rabbit.

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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 (Lepomis macrochirus).

Benzyl alcohol LC50 (96 h): 460 mg/l Species: Fathead minnow (Pimephales promelas).

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.

Bioaccumulation: No data is available on the product itself.

Bioaccumulation:

Benzyl alcohol: Low bioaccumulation potential.

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#### 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. (Isophorone diamine, M-xylylene diamine)

Sea transport

**IMDG** 

Hazard class: 8
Packing group: III
ID number: UN 2735

ID Hullibel. ON 2

Hazard label: 8

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Isophorone diamine, M-xylylene diamine)

Marine Pollutant: YES

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. (Isophorone diamine, M-xylylene diamine)

Marine pollutant: YES

#### 15. Regulatory Information

Toxic Substance Control Act (TSCA) 12(b)

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.

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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 : 2
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.