B.D. Classic
12903 Sunshine Ave.
Santa Fe Springs, CA 90670
TELEPHONE # 562/944-6177

Material Safety Data Sheet

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME	BDC-1200 PRIMER CURING AGENT
PRODUCT CODE	BDC 1200 B
MANUFACTURER	B.D. CLASSIC ENTERPRISES 12903 Sunshine Ave. Santa Fe Springs, Ca 90670
TELEPHONE NUMBER	562/944-6177
EMERGENCY TELEPHONE NUMBER(S)	CHEM TREC# 800-424-9300

Revision notes New MSDS Format

****

EMERGENCY OVERVIEW

****

HMIS HEALTH RATING 3 FLAMMABILITY 1 REACTIVITY 0

Mobile liquid, Amber ODOR: Ammoniacal.

Severe eye irritant. Severe skin irritant. Severe respiratory tract irritant. Corrosive Liquid. May cause skin sensitization. Ignition will give rise to a Class B fire. In case of fire use: Water Spray, Carbon Dioxide (CO2), Dry Chemical, Alcohol Foam.

****

C.A.S. CHEMICAL NAME	Mixture
SYNONYMS	None
CHEMICAL FAMILY	Amidoamine
EMPIRICAL FORMULA	Mixture
INTENDED USE	Epoxy Curing Agent

SECTION 2 - INGREDIENTS

%	CAS Number and Chemical Name	
< 25	100-51-6	BENZYL ALCOHOL
< 10	112-57-2	TETRAETHYLENEPENTAMINE (TEPA)

The remaining components are trade secret.

OSHA (ACGIH) EXPOSURE LIMITS

	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	CEILING ppm	CEILING mg/m3
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E

2. OSHA	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not Established

SECTION 3 - HEALTH HAZARDS

ROUTES OF EXPOSURE

Eye contact
Skin contact
Ingestion
Skin absorption

EXPOSURE STANDARDS

No standards established for the product. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

Harmful if in contact with skin
Corrosive to eyes
Corrosive to skin
Severe eye irritant
Severe skin irritant
May cause skin sensitization

TARGET ORGANS

Eye
Skin

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Product vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema may give rise to a perception of 'blue haze' ' or 'fog" around lights. The effect is transient and has no known residual effect. Burns of the eye may cause blindness. Contact with the skin may cause dryness (defatting), itching, and/or rash.
Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain any may cause burns, necrosis and permanent injury.
Inhalation of aerosols and mists may severely damage contacted tissue and produce scarring.
Risk of exposure to hazardous concentrations of vapor under normal working conditions in a well ventilated space is minimal. However, conditions such as spraying, or sudden release of hot liquid, which generate an aerosol, mists or fog should be avoided.
Product is absorbed through the skin and may cause malaise, discomfort, injury and death unless treated promptly.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible longer term effects)

Repeated and/or prolonged exposure may cause allergic reaction/sensitization.
Repeated and/or prolonged exposure may result in: adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as defatting, rash or irritation), adverse skin effects (such as rash, irritation or corrosion).
Dryness of nasal passages my be experienced when material is inhaled over a long period of time.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Eye disease
Skin disorders and allergies

CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER
This product contains no carcinogens in concentrations of 0.1 percent or greater.

SECTION 4 - FIRST AID

EYE CONTACT
Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT
Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS. Control shock, if present. Launder contaminated clothing prior to reuse.

INHALATION
Move patient to fresh air. If breathing has stopped or is labored, give assisted respiration (e.g. mouth-to-mouth). Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

INGESTION
In the event of ingestion, administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Seek medical advice.

SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (closed cup) 122.22 C (252.00 F)

UPPER EXPLOSION LIMIT (UEL) No Data
LOWER EXPLOSION LIMIT (LEL) No Data

AUTOIGNITION TEMPERATURE No Data
FIRE HAZARD CLASSIFICATION (OSHA/NFPA) Class IIIB

EXTINGUISHING MEDIA
Ignition will give rise to a Class B fire. In case of large fire use: Water spray, alcohol foam. In case of small fire use: Carbon dioxide (CO_2), dry chemical, dry sand or limestone.

SPECIAL FIRE FIGHTING PROCEDURES
A face shield should be worn. Fire fighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.
Retain expended liquids from fire fighting for later disposal.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May generate toxic or irritating combustion products.

Contact of liquid with skin must be prevented.

May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas.

Personnel in vicinity and downwind should be evacuated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc.)

Stop the leak, if possible. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

CLEAN UP PROCEDURES

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in a container or dumpster pending disposal. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Wear protective clothing, boots, gloves and eye protection.

SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in iron or other reactive metal containers.

HANDLING

Avoid contact with skin or eyes. When handling, do not eat, drink or smoke.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA). Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Cancer-causing nitrosamines could be formed.

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

EYE PROTECTION

Full face shield with goggles underneath.

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves. Polyvinyl chloride gloves.

RESPIRATORY PROTECTION

Not required under normal conditions in a well ventilated workplace. At elevated temperatures, a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for ammonia may be appropriate.

PROTECTIVE CLOTHING

Impervious clothing. Slicker suit. Rubber boots. Full rubber suit (rain gear). Butyl or latex protective clothing.

ENGINEERING CONTROLS

No specific controls needed.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Wash at the end or each work shift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Use appropriate hand and skin lotions to protect the skin. Discard contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Viscous liquid
COLOR	Amber
ODOR	Amine
pH	Alkaline
VAPOR PRESSURE (mm Hg at 21C (70F))	_2.00
VAPOR DENSITY (Air = 1)	No Data
BOILING POINT	_196.11 C (_385.00F)
MELTING POINT	No Data
SOLUBILITY IN WATER	Slight (0.1 - 1%)
SPECIFIC GRAVITY (Water = 1)	1.00
MOLECULAR WEIGHT	Mixture

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable

CONDITIONS TO AVOID (if unstable)

Not applicable

INCOMPATIBILITY (Materials to avoid)

Mineral acids (i.e. sulfuric, phosphoric, etc.). Organic acids (i.e. acetic acid, citric acid, etc.). Oxidizing agents (i.e. perchlorates, nitrates etc.). Reactive metals (i.e. sodium, calcium, zinc etc.). Sodium or calcium 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. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. Nitrites, nitrosating agents. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated by be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials)
Carbon monoxide in a fire. Carbon dioxide in a fire. Ammonia when heated. Nitrogen oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. Nitrosamines. Aldehydes. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm).

HAZARDOUS POLYMERIZATION
Will not occur

CONDITIONS TO AVOID (if polymerization may occur)
Not applicable

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)
_620.00 mg/kg (No deaths) (estimate)

ACUTE DERMAL TOXICITY (LD50, RABBIT)
_1000.00 mg/kg (estimate)

ACUTE INHALATION TOXICITY (LD50, RAT)
_10.00 mg/L / 1 hr (No deaths) (estimate)

OTHER ACUTE EFFECTS
No Data

IRRITATION EFFECTS DATA
Corrosive to the skin of a rabbit

CHRONIC/SUBCHRONIC DATA
Component has caused allergic sensitization in animals.

SECTION 12 - ECOLOGICAL INFORMATION

No Data

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTER DISPOSAL
Comply with all Federal, State and Local regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME	Amines, liquid, corrosive, n.o.s. (Cycloaliphatic Amine) /Tetraethylenepentamine) // 8 // UN2735 // PG III
IMO SHIPPING DATA ICAO/IATA SHIPPING DATA	Amines, liquid, corrosive, n.o.s. (Cycloaliphatic Amine) /Tetraethylenepentamine) // 8 // UN2735 // PG III // Shipment per 49 CFR 171.11

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA) -
All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)
Corrosive, sensitizer.
EPA SARA Title III Section 312 (40CFR370) hazard class
Immediate health hazard. Delayed health hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimus" level are:
None

STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component/s known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986":
None

SECTION 16 - INTERNATIONAL REGULATIONS

CANADA
DSL - included on inventory
WHMIS HAZARD CLASSIFICATION - Class D Division 2B, Class E Corrosive
WHMIS TRADE SECRET REGISTRY NUMBER/S - No data
WHMIS SYMBOLS - Test tube/hand, Stylized T

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS MASTER INVENTORY

Included on inventory

EEC SYMBOL

Corrosive (C)

EEC RISK (R) PHRASES

May cause sensitization by skin contact (R43). Causes burns (R34). Harmful if swallowed (R22).

EEC SAFETY PHRASES

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S36/34/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).