

SAFETY DATA SHEET



Date Prepared : 03/18/2013
 SDS No : TC-4208 PART B
 Date Revised : 06/19/2017
 Revision No : 1

TC-4208 PART B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-4208 PART B
GENERAL USE: Epoxy curing agent

MANUFACTURER

BJB Enterprises, Inc.
 14791 Franklin Avenue
 Tustin, CA 92780
Emergency Phone: (714) 734-8450

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (USA & Canada): (800) 424-9300
 or (703) 527-3887 CCN# 2820

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Corrosion, Category 1
 Serious Eye Damage, Category 1
 Skin Sensitization, Category 1

GHS LABEL



Corrosion



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P264: Wash thoroughly after handling.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P363: Wash contaminated clothing before reuse.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310: Immediately call a POISON CENTER/doctor/physician.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.

Storage:

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P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|--|---------|------------|
| 2,4,6-Tris(dimethylaminomethyl)phenol | 10 - 30 | 90-72-2 |
| Calcium Carbonate (limestone) | 10 - 30 | 1317-65-3 |
| 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich | 0.1 - 1 | 68515-49-1 |
| Silica, Amorphous | 0.1 - 1 | 7631-86-9 |
| Carbon black | < 0.1 | 1333-86-4 |
| Silica, Crystalline | < 0.1 | 14808-60-7 |

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if irritation or rash develops. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, and nitrogen oxides.

FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.

LARGE SPILL: Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge into drains or rivers.

GENERAL PROCEDURES: Refer to section 8 of SDS for personal protection details.

RELEASE NOTES: Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

TC-4208 PART B**7. HANDLING AND STORAGE**

GENERAL PROCEDURES: Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

HANDLING: Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a dry and well-ventilated place, away from excessive heat, in original or similar container. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

STORAGE TEMPERATURE: 65-80°F (18-27°C)

SHELF LIFE: 12 months from date of shipment under manufacturers recommended storage conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE GUIDELINES**

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | |
|--|-----------|-----------------|-------------------------|-------------------------------------|
| Chemical Name | Type | EXPOSURE LIMITS | | |
| | | | ppm | mg/m ³ |
| 2,4,6-Tris(dimethylaminomethyl)phenol | OSHA PEL | TWA | - | - |
| | | STEL | - | - |
| | ACGIH TLV | TWA | - | - |
| | | STEL | - | - |
| | NIOSH REL | TWA | - | - |
| | | STEL | - | - |
| Calcium Carbonate (limestone) | OSHA PEL | TWA | - ^[1] | 15T 5R ^[1] |
| | | STEL | - | - |
| | ACGIH TLV | TWA | - | - |
| | | STEL | - | - |
| | NIOSH REL | TWA | - ^[1] | 10T 5R ^[1] |
| | | STEL | - | - |
| 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich | OSHA PEL | TWA | - | - |
| | | STEL | - | - |
| | ACGIH TLV | TWA | - | - |
| | | STEL | - | - |
| | NIOSH REL | TWA | - | - |
| | | STEL | - | - |
| Silica, Amorphous | OSHA PEL | TWA | 20 mppcf ^[2] | 80 %SiO ₂ ^[2] |
| | | STEL | - | - |
| | ACGIH TLV | TWA | - | - |
| | | STEL | - | - |
| | NIOSH REL | TWA | - | 6 |
| | | STEL | - | - |

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| | | | | |
|--|-----------|------|------------------|----------------------|
| Carbon black | OSHA PEL | TWA | - | 3.5 |
| | | STEL | - | - |
| | ACGIH TLV | TWA | - | 3.5 |
| | | STEL | - | - |
| | NIOSH REL | TWA | - | 3.5 |
| | | STEL | - | - |
| Silica, Crystalline | OSHA PEL | TWA | - | 0.1 |
| | | STEL | - | - |
| | ACGIH TLV | TWA | - ^[3] | 0.025 ^[3] |
| | | STEL | - | - |
| | NIOSH REL | TWA | - | 0.05 |
| | | STEL | - | - |
| Footnotes: | | | | |
| 1. T = Total dust, R = Respirable fraction | | | | |
| 2. Mineral dusts | | | | |
| 3. Respirable fraction | | | | |

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

SKIN: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

RESPIRATORY: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.

WORK HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid

ODOR: Slight

COLOR: Black

pH: No data available

FLASH POINT AND METHOD: > 93.3°C (200°F) Pensky-Martens CC

VAPOR PRESSURE: No data available

VAPOR DENSITY: No data available

BOILING POINT: No data available

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1.29 (water=1) at 25°C (77°F)

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VISCOSITY #1: 22350 Centipoise at 25°C (77°F)

10. STABILITY AND REACTIVITY

REACTIVITY: Hazardous reactions will not occur under normal transport or storage conditions.

STABILITY: This product is stable under normal ambient conditions of temperature and pressure.

CONDITIONS TO AVOID: High temperatures, moisture, and freezing conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None Known

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and nitrogen oxides.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong alkalies, and strong acids.

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

| Chemical Name | ORAL LD ₅₀ | DERMAL LD ₅₀ | INHALATION LC ₅₀ |
|--|-----------------------|-------------------------|-----------------------------|
| 2,4,6-Tris(dimethylaminomethyl)phenol | 1200 mg/kg Rat | 1280 mg/kg Rat | No data available |
| Calcium Carbonate (limestone) | No data available | No data available | No data available |
| 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich | > 10 g/kg Rat | > 3.16 g/kg Rabbit | > 0.13 mg/l Rat |
| Silica, Amorphous | > 3300 mg/kg Rat | > 5000 mg/kg Rat | 0.139 mg/l Rat (4 h) |
| Carbon black | > 8000 g/kg | No data available | No data available |
| Silica, Crystalline | No data available | No data available | No data available |

SKIN CORROSION/IRRITATION: Causes severe skin burns.

SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION: May cause sensitization by skin contact.

GERM CELL MUTAGENICITY: No data available

CARCINOGENICITY

| Chemical Name | NTP Status | IARC Status |
|---------------------|------------|-------------|
| Silica, Amorphous | | 3 |
| Carbon black | | 2B |
| Silica, Crystalline | 1 | 1 |

REPRODUCTIVE TOXICITY: No data available

STOT-SINGLE EXPOSURE: No data available

STOT-REPEATED EXPOSURE: No data available

ASPIRATION HAZARD: No data available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available

ECOTOXICOLOGICAL INFORMATION: No specific ecological data are available for this product. Refer to Section 6 for information regarding accidental release and Section 15 for regulatory reporting information.

BIOACCUMULATION/ACCUMULATION: No data available

DISTRIBUTION: No data available

CHEMICAL FATE INFORMATION: No data available

13. DISPOSAL CONSIDERATIONS

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DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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 protections 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.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION): Not Regulated

AIR (ICAO/IATA): Not Regulated

VESSEL (IMO/IMDG): Not Regulated

15. REGULATORY INFORMATION**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Acute Health Hazard

313 REPORTABLE INGREDIENTS: This product does not contain any substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675):
None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product does not contain any chemicals subject to TSCA Section 12(b) export notification.

TSCA STATUS: This product or its components are listed in or exempt from the TSCA inventory requirements.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product contains chemical(s) which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

| Chemical Name | Wt. % | Listed |
|--|---------|------------------------|
| 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich | 0.1 - 1 | Developmental Toxicity |
| Carbon black | < 0.1 | Cancer |

OSHA HAZARD COMM. RULE: The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

DOMESTIC SUBSTANCE LIST (INVENTORY): All components in this product are listed in or exempted from the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

GENERAL COMMENTS:

DIDP RESTRICTIONS: This product contains diisodecyl phthalate (DIDP), CAS# 68515-49-1 EINECS# 271-091-4. In the U.S., there is an interim prohibition on DIDP above 0.1 percent by weight (one thousand parts per million) in toys intended for children age 12 and under that can be placed in a child's mouth and child care articles for children age 3 and under [H.R. 4040, The Consumer Safety Improvement Act of 2008]. In the EU, DIDP shall not be used as substance or as constituents of preparations, at concentrations of greater than 0.1 percent by weight (one thousand parts per million) of the plasticized material, in toys and child care articles which can be placed in the mouth by children. Such toys and child care articles containing DIDP in concentrations greater than the limit mentioned above shall not be placed on the market [Directive 2005/84/EC].

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16. OTHER INFORMATION

REASON FOR ISSUE: Revision

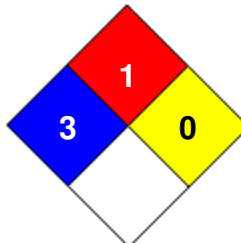
Date Revised: 06/19/2017

REVISION SUMMARY: This SDS replaces the 03/18/2013 SDS.

HMIS RATING

| | | |
|---------------------|-------------------------------------|---|
| HEALTH | <input type="checkbox"/> | 3 |
| FLAMMABILITY | <input type="checkbox"/> | 1 |
| PHYSICAL HAZARD | <input type="checkbox"/> | 0 |
| PERSONAL PROTECTION | <input checked="" type="checkbox"/> | |

NFPA CODES



HMIS RATINGS NOTES: Personal Protection: See Section 8

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