

## SAFETY DATA SHEET



Date Issued : 02/29/2012  
 SDS No : TC-891 FR REV 1 PART B  
 Date Revised : 08/24/2018  
 Revision No : 2

## TC-891 FR REV 1 PART B

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TC-891 FR REV 1 PART B

**GENERAL USE:** Polyurethane curative

**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:**

Carcinogenicity, Category 2  
 Reproductive Toxicity, Category 2  
 Target Organ Toxicity (Repeated exposure), Category 2

**Environmental:**

Chronic Hazards to the Aquatic Environment, Category 3

**GHS LABEL**

Health hazard



Exclamation  
 mark

**SIGNAL WORD:** WARNING

**HAZARD STATEMENTS**

H351: Suspected of causing cancer.  
 H361: Suspected of damaging fertility or the unborn child.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H412: Harmful to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS****Prevention:**

P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P273: Avoid release to the environment.

**Response:**

P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor/physician.

**Storage:**

P405: Store locked up.

**Disposal:**

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

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Chemical Name   | Wt.%    | CAS         |
|---|---------|-------------|
| Polyether polyol mixture  | 30 - 60 | Proprietary |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | 10 - 30 | 68515-48-0  |
| Decabromodiphenylethane   | 10 - 30 | 84852-53-9  |
| Zinc borate   | 5 - 10  | 1332-07-6   |
| Antimony trioxide   | 5 - 10  | 1309-64-4   |
| Titanium oxide (TiO <sub>2</sub> )                                    | 0.1 - 1 | 13463-67-7  |
| Silicon dioxide   | 0.1 - 1 | 7631-86-9   |
| Lead monoxide   | < 0.01  | 1317-36-8   |
| Arsenic trioxide  | < 0.01  | 1327-53-3   |

**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 medical attention if irritation develops.

**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 unless directed to do so by medical personnel. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

**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, nitrogen oxides, hydrogen bromide, bromine, and antimony oxide.

**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**

**SPILL AND LEAK PROCEDURES:** Evacuate unnecessary personnel from the spill area. Eliminate all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Dike and contain spill. Prevent product from entering drains or waterways. Absorb with non-combustible material (such as sand, earth, diatomaceous earth, or vermiculite) and transfer to a container for disposal according to local/national regulations.

**ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Do not discharge into drains, surface waters, or groundwater.

**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.

**7. HANDLING AND STORAGE**

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**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:** 6 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 <sup>3</sup> |
| Polyether polyol mixture  | OSHA PEL  | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | ACGIH TLV | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | NIOSH REL | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | OSHA PEL  | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | ACGIH TLV | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | NIOSH REL | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
| Decabromodiphenylethane   | OSHA PEL  | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | ACGIH TLV | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | NIOSH REL | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
| Zinc borate   | OSHA PEL  | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | ACGIH TLV | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | NIOSH REL | TWA             | -   | -                 |
|   |           | STEL            | -   | -                 |
|   | OSHA PEL  | TWA             | -   | 5                 |
|   |           | STEL            | -   | -                 |

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|  |           |      |                         |                                     |
|--|-----------|------|-------------------------|-------------------------------------|
| Antimony trioxide                                      | ACGIH TLV | TWA  | -                       | 0.5                                 |
|  |           | STEL | -                       | -                                   |
|  | NIOSH REL | TWA  | -                       | 0.5                                 |
|  |           | STEL | -                       | -                                   |
| Titanium oxide (TiO <sub>2</sub> )                     | OSHA PEL  | TWA  | - <sup>[1]</sup>        | 15 <sup>[1]</sup>                   |
|  |           | STEL | -                       | -                                   |
|  | ACGIH TLV | TWA  | -                       | 10                                  |
|  |           | STEL | -                       | -                                   |
|  | NIOSH REL | TWA  | -                       | -                                   |
|  |           | STEL | -                       | -                                   |
| Silicon dioxide  | OSHA PEL  | TWA  | 20 mppcf <sup>[2]</sup> | 80 %SiO <sub>2</sub> <sup>[2]</sup> |
|  |           | STEL | -                       | -                                   |
|  | ACGIH TLV | TWA  | -                       | -                                   |
|  |           | STEL | -                       | -                                   |
|  | NIOSH REL | TWA  | -                       | 6                                   |
|  |           | STEL | -                       | -                                   |
| Lead monoxide  | OSHA PEL  | TWA  | -                       | 0.05                                |
|  |           | STEL | -                       | -                                   |
|  | ACGIH TLV | TWA  | -                       | 0.05                                |
|  |           | STEL | -                       | -                                   |
|  | NIOSH REL | TWA  | -                       | 0.05                                |
|  |           | STEL | -                       | -                                   |
| Arsenic trioxide                                       | OSHA PEL  | TWA  | -                       | 0.01                                |
|  |           | STEL | -                       | -                                   |
|  | ACGIH TLV | TWA  | -                       | 0.01                                |
|  |           | STEL | -                       | -                                   |
|  | NIOSH REL | TWA  | -                       | -                                   |
|  |           | STEL | -                       | -                                   |
| C  |           | -    | 0.002                   |                                     |
| <b>Footnotes:</b><br>1. Total dust<br>2. Mineral dusts |           |      |                         |                                     |

**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

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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:** Liquid

**ODOR:** Slight

**COLOR:** White

**pH:** No data available

**PERCENT VOLATILE:** 0.1

**FLASH POINT AND METHOD:** 182.2°C (360°F) Pensky-Martens CC

**VAPOR PRESSURE:** No data available

**VAPOR DENSITY:** No data available

**BOILING POINT:** No data available

**SOLUBILITY IN WATER:** Slightly soluble

**SPECIFIC GRAVITY:** 1.33 (water=1) at 25°C (77°F)

**VISCOSITY #1:** 1450 Centipoise at 25°C (77°F)

**(VOC):** < 1.4 g/l Calculated. Theoretical VOC minus water and exempt solvents.

**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:** No data available

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen bromide, bromine, and antimony oxide.

**INCOMPATIBLE MATERIALS:** Isocyanates, strong bases, strong acids, and strong oxidizing agents.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

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| Chemical Name   | ORAL LD <sub>50</sub> | DERMAL LD <sub>50</sub> | INHALATION LC <sub>50</sub>  |
|---|-----------------------|-------------------------|------------------------------|
| Polyether polyol mixture  | No data available     | No data available       | No data available            |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | No data available     | No data available       | No data available            |
| Decabromodiphenylethane   | > 5000 mg/kg Rat      | > 2000 mg/kg Rabbit     | No data available            |
| Zinc borate   | > 10000 mg/kg Rat     | > 10000 mg/kg Rabbit    | No data available            |
| Antimony trioxide   | > 20000 mg/kg Rat     | > 8300 mg/kg Rabbit     | > 5200 mg/m <sup>3</sup> Rat |
| Titanium oxide (TiO <sub>2</sub> )                                    | > 10000 mg/kg Rat     | No data available       | > 6.82 mg/l Rat (4 h)        |
| Silicon dioxide   | > 3300 mg/kg Rat      | > 5000 mg/kg Rat        | 0.139 mg/l Rat (4 h)         |
| Lead monoxide   | > 2000 mg/kg Rat      | No data available       | No data available            |
| Arsenic trioxide  | 14.6 mg/kg Rat        | No data available       | No data available            |

**SKIN CORROSION/IRRITATION:** No data available

**SERIOUS EYE DAMAGE/IRRITATION:** No data available

**RESPIRATORY OR SKIN SENSITISATION:** No data available

**GERM CELL MUTAGENICITY:** No data available

#### CARCINOGENICITY

| Chemical Name                      | IARC Status |
|------------------------------------|-------------|
| Antimony trioxide                  | 2B          |
| Titanium oxide (TiO <sub>2</sub> ) | 2B          |
| Silicon dioxide                    | 3           |

**REPRODUCTIVE TOXICITY:** Suspected of damaging fertility or the unborn child.

**STOT-SINGLE EXPOSURE:** No data available

**STOT-REPEATED EXPOSURE:** May cause damage to organs through prolonged or repeated exposure.

**ASPIRATION HAZARD:** No data available

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** This product may cause risk of hazardous effects to the environment.

**ECOTOXICOLOGICAL INFORMATION:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.

**BIOACCUMULATION/ACCUMULATION:** No data available

**DISTRIBUTION:** No data available

**CHEMICAL FATE INFORMATION:** No data available

## 13. DISPOSAL CONSIDERATIONS

**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

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## 15. REGULATORY INFORMATION

## UNITED STATES

## SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Chronic Health Hazard

**313 REPORTABLE INGREDIENTS:** This product contains the following 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:

## EPCRA SECTION 313 SUPPLIER NOTIFICATION

| Chemical Name     | Wt. %  | CAS       | Comments                                |
|-------------------|--------|-----------|---|
| Zinc borate       | 5 - 10 | 1332-07-6 | Zinc Compounds (Category Code N982)     |
| Antimony trioxide | 5 - 10 | 1309-64-4 | Antimony Compounds (Category Code N010) |
| Lead monoxide     | < 0.01 | 1317-36-8 | Lead Compounds (Category Code N420)     |

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

**CERCLA REGULATORY:** This product contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical Name     | Wt. %  | CERCLA RQ  |
|-------------------|--------|------------|
| Zinc borate       | 5 - 10 | 1,000 lbs. |
| Antimony trioxide | 5 - 10 | 1,000 lbs. |
| Arsenic trioxide  | < 0.01 | 1          |

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** This product does not contain any substances 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: ⚠ WARNING:** This product can expose you to chemicals including [see table below], which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Chemical Name     | Wt. %  | Listed   |
|-------------------|--------|--|
| Antimony trioxide | 5 - 10 | Cancer   |
| Lead monoxide     | < 0.01 | <ul style="list-style-type: none"> <li>● Cancer</li> <li>● Developmental Toxicity</li> </ul> |
| Arsenic trioxide  | < 0.01 | Developmental Toxicity   |

**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):** At least one component is not listed in the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

## GENERAL COMMENTS:

**DINP RESTRICTIONS:** This product contains diisononyl phthalate (DINP), CAS# 68515-48-0 EINECS# 271-090-9. In the U.S., there is an interim prohibition on DINP 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, DINP 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 childcare articles which can be placed in the mouth by children. Such toys and childcare articles containing DINP in concentrations greater than the limit mentioned above shall not be placed on the market

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[Directive 2005/84/EC].

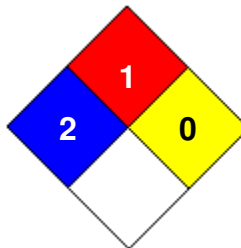
## 16. OTHER INFORMATION

**REASON FOR ISSUE:** Revision**Date Revised:** 08/24/2018**REVISION SUMMARY:** This SDS replaces the 08/24/2015 SDS.

## HMIS RATING

|                     |   |   |
|---------------------|---|---|
| HEALTH              | * | 2 |
| FLAMMABILITY        |   | 1 |
| PHYSICAL HAZARD     |   | 0 |
| PERSONAL PROTECTION |   | X |

## NFPA CODES

**HMIS RATINGS NOTES:** Personal Protection: See Section 8**MANUFACTURER DISCLAIMER:** This information is furnished without warranty, expressed or implied, except that is accurate to the best knowledge of BJB Enterprises, Inc. The data on this sheet relates only to the specific material designated herein. BJB Enterprises, Inc. assumes no legal responsibility for use or reliance upon this data.