

## SAFETY DATA SHEET



Date Issued : 10/24/2011  
 SDS No : TC-812 PART A SLOW  
 Date Revised : 11/05/2018  
 Revision No : 2

## TC-812 PART A SLOW

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TC-812 PART A SLOW

**GENERAL USE:** Polyurethane resin

**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:**

Acute Toxicity (Inhalation), Category 4  
 Skin Irritation, Category 2  
 Eye Irritation, Category 2A  
 Respiratory Sensitization, Category 1  
 Skin Sensitization, Category 1  
 Carcinogenicity, Category 2  
 Reproductive Toxicity, Category 1  
 Target Organ Toxicity (Single exposure), Category 3  
 Target Organ Toxicity (Repeated exposure), Category 1

**Environmental:**

Chronic Hazards to the Aquatic Environment, Category 3

**Physical:**

Flammable Liquids, Category 4

**GHS LABEL**

Health hazard



Exclamation  
 mark

**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS**

H227: Combustible liquid.  
 H332: Harmful if inhaled.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317: May cause an allergic skin reaction.  
 H351: Suspected of causing cancer.  
 H360: May damage fertility or the unborn child.  
 H335: May cause respiratory irritation.  
 H372: Causes damage to organs through prolonged or repeated exposure.

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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.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P271: Use only outdoors or in a well-ventilated area.  
 P284: In case of inadequate ventilation wear respiratory protection.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P273: Avoid release to the environment.

**Response:**

- P370+P378: In case of fire: Use water spray, carbon dioxide, dry chemical, or foam for extinction.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P308+P313: IF exposed or concerned: Get medical advice/ attention.

**Storage:**

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 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
Polymeric diphenylmethane diisocyanate	15 - 40	9016-87-9
4,4'-Diphenylmethane diisocyanate	10 - 30	101-68-8
Stoddard solvent	5 - 10	8052-41-3
Dibutyl phthalate (DBP)	1 - 5	84-74-2

**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 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. 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**

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

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, and hydrogen cyanide.

**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

**GENERAL PROCEDURES:** Keep away from sources of ignition. 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 in a well ventilated area. Avoid heat, sparks, and open flames. Avoid breathing vapor and contact with eyes, skin, and clothing. Use appropriate personal protective equipment as specified in Section 8. 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 the original or similar container. Avoid sources of ignition and incompatible materials. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials. Avoid unnecessary contact.

**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

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## EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m <sup>3</sup>
Polymeric diphenylmethane diisocyanate	OSHA PEL	TWA	-	-
		STEL	-	-
	ACGIH TLV	TWA	-	-
		STEL	-	-
	NIOSH REL	TWA	-	-
		STEL	-	-
4,4'-Diphenylmethane diisocyanate	OSHA PEL	TWA	-	-
		STEL	-	-
		C	0.02	0.2
	ACGIH TLV	TWA	0.005	-
		STEL	-	-
	NIOSH REL	TWA	0.005	0.05
		STEL	-	-
		C	0.02 <sup>[1]</sup>	0.2 <sup>[1]</sup>
Stoddard solvent	OSHA PEL	TWA	500	2900
		STEL	-	-
	ACGIH TLV	TWA	100	-
		STEL	-	-
	NIOSH REL	TWA	-	350
		STEL	-	-
C		- <sup>[2]</sup>	2900 <sup>[2]</sup>	
Dibutyl phthalate (DBP)	OSHA PEL	TWA	-	5
		STEL	-	-
	ACGIH TLV	TWA	-	5
		STEL	-	-
	NIOSH REL	TWA	-	5
		STEL	-	-
<b>Footnotes:</b>				
1. 10-minute				
2. 15-minute				

**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.

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**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:** Liquid

**ODOR:** Slightly musty

**COLOR:** Yellow

**pH:** No data available

**PERCENT VOLATILE:** 5-10

**FLASH POINT AND METHOD:** 65.6°C (150°F) T.O.C.

**VAPOR PRESSURE:** No data available

**VAPOR DENSITY:** No data available

**BOILING POINT:** No data available

**SOLUBILITY IN WATER:** Reacts slowly with water

**SPECIFIC GRAVITY:** 0.65 (water=1) at 25°C (77°F)

**VISCOSITY #1:** 650 Centipoise at 25°C (77°F)

**(VOC):** < 65 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:** Reaction with water produces carbon dioxide. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with, and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, and hydrogen cyanide.

**INCOMPATIBLE MATERIALS:** Water, alcohols, amines, bases, and acids.

**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Polymeric diphenylmethane diisocyanate	> 10000 mg/kg Rat	> 9400 mg/kg Rabbit	490 mg/m <sup>3</sup> Rat (4 h)
4,4'-Diphenylmethane diisocyanate	> 10000 mg/kg Rat	> 9400 mg/kg Rabbit	490 mg/m <sup>3</sup> Rat (4 h)
Stoddard solvent	> 5000 mg/kg Rat	> 3000 mg/kg Rabbit	5500 mg/m <sup>3</sup> Rat (4 h)
Dibutyl phthalate (DBP)	8000 mg/kg Rat	> 20860 mg/kg Rabbit	4250 mg/m <sup>3</sup> Rat

**SKIN CORROSION/IRRITATION:** Causes skin irritation.

**SERIOUS EYE DAMAGE/IRRITATION:** Causes serious eye irritation.

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

**TC-812 PART A SLOW****GERM CELL MUTAGENICITY:** No data available**CARCINOGENICITY**

Chemical Name	IARC Status
Polymeric diphenylmethane diisocyanate	3
4,4'-Diphenylmethane diisocyanate	3

**REPRODUCTIVE TOXICITY:** May damage fertility or the unborn child.**STOT-SINGLE EXPOSURE:** May cause respiratory irritation.**STOT-REPEATED EXPOSURE:** Causes 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.**EMPTY CONTAINER:** Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.****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, Chronic Health Hazard, Fire 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
Polymeric diphenylmethane diisocyanate	15 - 40	9016-87-9	Diisocyanate Compounds (Category Code N120)
4,4'-Diphenylmethane diisocyanate	10 - 30	101-68-8	Diisocyanate Compounds (Category Code N120)
Dibutyl phthalate (DBP)	1 - 5	84-74-2	

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

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**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
4,4'-Diphenylmethane diisocyanate	10 - 30	5,000 lbs.
Dibutyl phthalate (DBP)	1 - 5	10 lbs.

**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 is 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
Dibutyl phthalate (DBP)	1 - 5	<ul style="list-style-type: none"> <li>● Developmental Toxicity</li> <li>● Female Reproductive</li> <li>● Male Reproductive</li> </ul>

**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:**

**DBP RESTRICTIONS:** This product contains dibutyl phthalate (DBP), CAS# 84-74-2 EINECS# 201-557-4. In the U.S., there is a Prohibition on the Sale of Certain Products Containing Phthalates. Children's toys or child care articles shall not contain above 0.1 percent by weight (one thousand parts per million) of DBP [H.R. 4040, The Consumer Safety Improvement Act of 2008]. In the EU, DBP 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. Such toys and child care articles containing DBP in concentrations greater than the limit mentioned above shall not be placed on the market [Directive 2005/84/EC].

**16. OTHER INFORMATION**

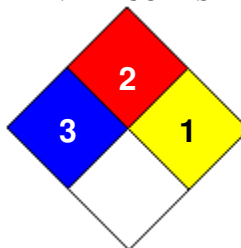
**REASON FOR ISSUE:** Revision

**Date Revised:** 11/05/2018

**REVISION SUMMARY:** This SDS replaces the 11/06/2015 SDS.

**HMIS RATING**

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>		<b>X</b>

**NFPA CODES**

**HMIS RATINGS NOTES:** Personal Protection: See Section 8

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