# SAFETY DATA SHEET



**Date issued:** 03/01/2012

SDS number: TC-892 FR REV 1 PART A

Date revised: 02/28/2023

**Revision number:** 5

## TC-892 FR REV 1 PART A

## 1. Identification

**Product identifier:** TC-892 FR REV 1 PART A **Relevant identified uses:** Polyurethane resin

## Manufacturer / Supplier

BJB Enterprises, Inc. 14791 Franklin Avenue Tustin, CA 92780

**Emergency Phone:** (714) 734-8450

# Emergency telephone number (24 hour)

CHEMTREC (USA & Canada): (800) 424-9300

or (703) 527-3887 CCN# 2820

#### 2. Hazard identification

#### Classification of the substance or mixture

#### Health hazards:

Acute Toxicity (Inhalation), Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2A

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Carcinogenicity, Category 2

Target Organ Toxicity (Single exposure), Category 3

Target Organ Toxicity (Repeated exposure), Category 2

# Label elements







Exclamation mark

# **Signal word:** DANGER **Hazard statement(s)**

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.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

# Precautionary statement(s)

#### **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.

P271: Use only outdoors or in a well-ventilated area.

P284: In case of inadequate ventilation wear respiratory protection.

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:**

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	% w/w	CAS No.
4,4'-Diphenylmethane diisocyanate	40 - 70	101-68-8
Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer	10 - 30	25686-28-6
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich		68515-48-0
2,6-di-tert-butyl-p-cresol	0.1 - 1	128-37-0

## 4. First-aid measures

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

**Skin:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical advice/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.

**Indication of immediate medical attention and special treatment needed, if necessary:** Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

## 5. Fire-fighting measures

Suitable 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

**Small spill:** Evacuate unnecessary personnel from the spill area. Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Eliminate all sources of ignition. Ensure adequate ventilation. 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:** 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.

**Precautions for safe 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.

**Conditions for safe 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 controls**

Control parameters					
	Occupational e	Occupational exposure limit values			
Chemical name	Туре	Туре			
4,4'-Diphenylmethane diisocyanate	OSHA PEL	C	0.02	0.2	
	ACGIH TLV	TWA	0.005	-	
	NIOSH DEL	TWA	0.005	0.05	
	NIOSH REL	С	0.02 [1]	0.2 [1]	
2,6-di-tert-butyl-p-cresol	NIOSH REL	TWA	-	10	
Footnotes:	•	•	•		

#### roomotes.

1. 10-minute

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

## Individual protection measures, such as personal protective equipment

Eye / face protection: 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 protection - hand protection:** 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 protection:** 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).

**Skin protection - other:** Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

**Occupational hygiene 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

Color: Yellow Odor: Slight

pH: No data available

Initial boiling point and boiling range: No data available

Flash point: 207.2°C (405°F) Pensky-Martens CC

Vapor pressure: No data available

**Relative vapor density:** No data available **Relative density:** 1.18 (water=1) at 25°C (77°F)

**Solubility:** Reacts slowly with water

**Dynamic viscosity:** 325 Centipoise at 25°C (77°F)

VOC content: Nil

# 10. Stability and reactivity

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

Chemical 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, amines, acids, bases, and strong oxidizing agents.

# 11. Toxicological information

#### Acute toxicity

Chemical name	LD <sub>50</sub> (oral) mg/kg(rat)	LD <sub>50</sub> (dermal) mg/kg(rabbit)	LC <sub>50</sub> (inhalation) mg/l
4,4'-Diphenylmethane diisocyanate	> 2000 mg/kg Rat	> 9400 mg/kg Rabbit	2.24 mg/l Rat (1 h, dust/mist)
Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer	> 5000 mg/kg Rat	No data available	0.49 m <i>g</i> /l Rat
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data available	No data available	No data available
2,6-di-tert-butyl-p-cresol	> 2900 mg/kg Rat	> 2000 mg/kg Rat	No data available

**Skin corrosion / irritation:** Causes skin irritation.

Serious eye damage / irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity: No data available

Carcinogenicity

Chemical name	IARC
4,4'-Diphenylmethane diisocyanate	3
2,6-di-tert-butyl-p-cresol	3

Reproductive toxicity: No data available

Specific Target Organ Toxicity - single exposure: May cause respiratory irritation.

Specific Target Organ Toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard:** No data available

# 12. Ecological information

**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.

Persistence and degradability: No data available Bioaccumulative potential: No data available Other adverse effects: No data available Mobility in soil: No data available

# 13. Disposal considerations

**Disposal methods:** 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

USA Department of Transport Regulations (DOT): Not Regulated

ICAO / IATA - air: Not Regulated IMO / IMDG - sea: Not Regulated

### 15. Regulatory information

#### **UNITED STATES**

# SARA Section 311/312 Hazard Categories

311/312 Health hazards: Refer to Section 2 for hazard classification.

**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 Toxic Chemicals**

Chemical name	% w/w	CAS No.	Comments
4,4'-Diphenylmethane diisocyanate	40 - 70	101-68-8	Diisocyanate Compounds (Category Code N120)

**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).

## CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
4,4'-Diphenylmethane diisocyanate	40 - 70	5,000 lbs.

#### TSCA (The Toxic Substances 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 [are] known to the State of California to cause cancer. For more information, go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

Chemical name	% w/w	Listed
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	10 - 30	Cancer

**USA OSHA Hazard Communication Standard (29CFR 1910.1200):** The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **CANADA**

**WHMIS Regulatory Status:** 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 Substances List (DSL) / Non-Domestic Substances List (NDSL):** 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:**

**DINP RESTRICTIONS:** This product contains diisononyl phthalate (DINP), CAS# 68515-48-0 EINECS# 271-090-9.

In the U.S., there is permanent 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 [83 FR 3583, 16 CFR PART 1307]. 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 place 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 [Directive 2005/84/EC].

# 16. Other information

**Reason for issue:** Revision **Date revised:** 02/28/2023

**Revision summary:** This SDS replaces the 10/04/2019 SDS.

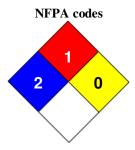
HMIS rating

Health \* 2

Flammability 1

Physical hazard 0

Personal protection X



HMIS ratings notes: Personal Protection: See Section 8

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