



SAFETY DATA SHEET

Date issued : 12/10/2019
 SDS number : TC-90 PART B
 Date revised : 06/08/2023
 Revision number : 1

TC-90 PART B

1. Identification

Product identifier: TC-90 PART B

Relevant identified uses: Polyurethane curative

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
 Eye Irritation, Category 2A
 Skin Sensitization, Category 1
 Target Organ Toxicity (Single exposure), Category 3

Environmental hazards:

Chronic Hazards to the Aquatic Environment, Category 2

Physical hazards:

Flammable Liquids, Category 2

Label elements



Flame



Exclamation
mark



Environment

Signal word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapour.
 H332: Harmful if inhaled.
 H319: Causes serious eye irritation.
 H317: May cause an allergic skin reaction.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/material-handling equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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.

P273: Avoid release to the environment.

Response:

P370+P378: In case of fire: Use carbon dioxide, dry chemical, or alcohol-resistant foam for extinction.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor/physician if you feel unwell.

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.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P391: Collect spillage.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P235: Keep cool.

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.
tert-Butyl acetate	15 - 40	540-88-5
Methyl ethyl ketone	10 - 30	78-93-3
Tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-.sc.dl.sc.-aspartate	10 - 30	136210-30-5
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	10 - 30	136210-32-7
2-Butenedioic acid (E)-, diethyl ester	0.5 - 1.5	623-91-6

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. 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: Carbon dioxide, dry chemical, or alcohol-resistant 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

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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: 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.

Precautions for safe 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.

Conditions for safe 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**Exposure controls**

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
tert-Butyl acetate	OSHA PEL	TWA	200	950
		STEL	-	-
	ACGIH TLV	TWA	200	-
		STEL	-	-
	NIOSH REL	TWA	200	950
		STEL	-	-
Methyl ethyl ketone	OSHA PEL	TWA	200	590
		STEL	-	-
	ACGIH TLV	TWA	200	-
		STEL	300	-
	NIOSH REL	TWA	200	590
		STEL	300	885

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

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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: Pale yellow

Odor: Characteristic

pH: No data available

Initial boiling point and boiling range: > 80°C (176°F)

Flash point: > -3°C (26.6°F)

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: 0.942 (water=1) at 25°C (75°F)

Solubility: Negligible

Dynamic viscosity: 20 Centipoise at 25°C (75°F)

VOC content: 70 g/l (as supplied COMPONENTS MIXED) Calculated. Theoretical VOC minus water and exempt solvents.

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 and sources of ignition.

Possibility of hazardous reactions: No data available

Hazardous decomposition products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

Incompatible materials: Isocyanates, strong acids, strong bases, and strong oxidizing agents.

11. Toxicological information**Acute toxicity**

Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
tert-Butyl acetate	4500 mg/kg Rat	> 2000 mg/kg Rabbit	No data available
Methyl ethyl ketone	2737 mg/kg Rat	6480 mg/kg Rabbit	32000 mg/m ³ Mouse (4 h)
Tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-.sc.dl.sc.-aspartate	> 2000 mg/kg Rat	> 2000 mg/kg Rat	> 4.224 mg/l Rat (4 h, dust/mist)
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	> 2000 mg/kg Rat	> 2000 mg/kg Rat	> 4.224 mg/l Rat (4 h)

Skin corrosion / irritation: No data available

Serious eye damage / irritation: Causes serious eye irritation.

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

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

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

Specific Target Organ Toxicity - repeated exposure: No data available

TC-90 PART B**Aspiration hazard:** No data available**12. Ecological information****Ecotoxicological information:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.**Persistence and degradability:** No data available**Bioaccumulative potential:** No data available**Environmental data:** This product may cause risk of hazardous effects to the environment.**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.**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****USA Department of Transport Regulations (DOT)****UN proper shipping name:** Paint related material (including paint thinning, removing, or reducing compound)**UN number:** UN1263**Transport hazard class(es):** 3**Packing group:** II**NAERG:** 128**Hazard label:** Flammable liquid**ICAO / IATA - air****UN proper shipping name:** Paint related material (including paint thinning, removing, or reducing compound)**UN number:** UN1263**Transport hazard class(es):** 3**Packing group:** II**ERG:** 3L**Hazard label:** Flammable liquid**IMO / IMDG - sea****UN proper shipping name:** Paint related material (including paint thinning, removing, or reducing compound)**UN number:** UN1263**Transport hazard class(es):** 3**Packing group:** II**Hazard label:** Flammable liquid**Special provisions:** EmS: F-E, S-E**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 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.

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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).

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
tert-Butyl acetate	15 - 40	5,000
Methyl ethyl ketone	10 - 30	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 birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemical name	% w/w	Listed
Toluene	< 0.005	<ul style="list-style-type: none"> Developmental Toxicity

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).

16. Other information

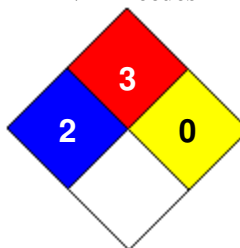
Reason for issue: Revision

Date revised: 06/08/2023

Revision summary: This SDS replaces the 12/10/2019 SDS.

HMIS rating

Health	*	2
Flammability		3
Physical hazard		0
Personal protection	X	

NFPA codes

HMIS ratings notes: Personal Protection: See Section 8

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