

MATERIAL SAFETY DATA SHEET



Date Issued: 08/05/2010
 MSDS No: TC-89 PRIMER PART B
 Date-Revised: 08/12/2010
 Revision No: 1

TC-89 PRIMER PART B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-89 PRIMER PART B
GENERAL USE: Polyurethane primer
CHEMICAL FAMILY: Ketone

MANUFACTURER

BJB Enterprises, Inc.
 14791 Franklin Avenue
 Tustin, CA 92780
Customer Service Number: (714) 734-8450
Fax: (714) 734-8929

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300
 or (703) 527-3887

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE AND ODOR: Clear colorless liquid with a ketone odor.

IMMEDIATE CONCERNS: WARNING! Flammable liquid and vapor. Potential peroxide former. Keep away from heat, sparks, and flames. Vapors can travel to a source of ignition and flash back. Unvented containers may develop pressure on prolonged exposure to heat. Eye irritation or injury may result from exposure to this product. Prolonged contact may cause skin irritation. May be harmful if swallowed.

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation, tearing, reddening, and swelling.

SKIN: Prolonged or repeated contact may cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: May be harmful if inhaled.

MEDICAL CONDITIONS AGGRAVATED: Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, and kidney.

ROUTES OF ENTRY: Eye and skin contact, inhalation of vapors, or accidental ingestion.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Methyl propyl ketone	> 90	107-87-9

4. FIRST AID MEASURES

EYES: Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water 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 symptoms occur. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek 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

FLASHPOINT AND METHOD: 8°C (46.4°F) TAG CC

GENERAL HAZARD: Flammable liquid and vapor.

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

EXPLOSION HAZARDS: Flammable liquid. Flashback along vapor trail may occur. This material may be ignited by heat, sparks, flame, or static electricity. Closed containers may explode when exposed to extreme heat. Heating can release vapor which can be ignited.

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.

HAZARDOUS DECOMPOSITION PRODUCTS: May form peroxides of unknown stability.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Eliminate sources of ignition. 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 (earth or sand). Do not use combustible materials such as saw dust. Use only spark resistant and explosion proof recovery devices. 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).

RELEASE NOTES: US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Flammable liquid. 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: Keep away from heat, sparks, open flames, or other sources of ignition. Do not store portable containers in direct sunlight. Keep containers closed when not in use. For maximum storage life, store at temperatures below 50 degree Fahrenheit. Store away from incompatible materials. (see section 10)

SHELF LIFE: 6 months from date of shipment under manufacturers recommended storage conditions.

ELECTROSTATIC ACCUMULATION HAZARD: This material can accumulate static charges which can cause an incendiary electrical discharge. Use proper bonding and/or grounding procedure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Methyl propyl ketone	TWA	200	700	200	700	150 ^[1]	530 ^[1]
	STEL	NE	NE	250	875	NE	NE
OSHA TABLE COMMENTS:							
1. NIOSH REL							

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: Liquid

ODOR: Ketone

COLOR: Colorless

PERCENT VOLATILE: 100

VAPOR PRESSURE: 27.8 mmHg at 20°C (68°F)

VAPOR DENSITY: 2.9 Melting point: -78 deg C

BOILING POINT: 101°C (213.8°F)

FLASHPOINT AND METHOD: 8°C (46.4°F) TAG CC

SOLUBILITY IN WATER: Moderate

SPECIFIC GRAVITY: 0.810 (water=1) at 20°C (68°F)

VISCOSITY: 0.68 mPa. s. at 25°C (77°F)

VOC (Volatile Organic Compound): 810.000 g/l Calculated. Theoretical VOC minus water and exempt solvents.

10. STABILITY AND REACTIVITY

STABILITY: Normally stable. On long term storage, materials containing similar functional groups form peroxides of unknown stability.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

INCOMPATIBLE MATERIALS: Material reacts violently with strong oxidizing agents, strong bases, and strong reducing agents.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Methyl propyl ketone	1600 mg/kg	6500 mg/kg	Not Established

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY

96-HOUR LC₅₀: > 810 mg/l Fathead minnow

48-HOUR EC₅₀: Not Established

96-HOUR EC₅₀: Not Established

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with local, state, provincial or national regulations.

EMPTY CONTAINER: Containers must be emptied (as defined by RCRA, 40 CFR Section 261.7 or state regulations that may be more stringent) and either passed to an approved recycler or destroyed.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION) LAND

PROPER SHIPPING NAME: Methyl propyl ketone

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN 1249

PACKING GROUP: II

LABEL: Flammable liquid

AIR (ICAO/IATA)

SHIPPING NAME: Methyl propyl ketone

UN/NA NUMBER: UN 1249

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

LABEL: Flammable liquid

VESSEL (IMO/IMDG)

SHIPPING NAME: Methyl propyl ketone

UN/NA NUMBER: UN 1249

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

LIMITED QUANTITY: 1L

LABEL: Flammable liquid

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:
None

CERCLA (COMPREHENSIVE 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 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):
None

OSHA HAZARD COMM. RULE: The contents of the MSDS 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 MSDS contains all the information required by the CPR.

WHMIS CLASS: B2, D2B

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

16. OTHER INFORMATION

REASON FOR ISSUE: Revised format

APPROVED BY: Michael Rose **TITLE:** R & D Manager

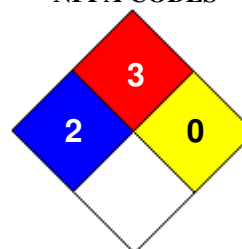
PREPARED BY: Gus Alidad

REVISION SUMMARY: Revision # 1: Section 8 Exposure Controls.

HMIS RATING

HEALTH:	*	1
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:	X	

NFPA CODES



HMIS RATINGS NOTES: Personal Protection: See Section 8

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