

Material Safety Data Sheet

89 THINNER

Date of Preparation: 02/03/2003

Revision: 02/03/2003

Section 1 - Chemical Product and Company Identification

Product Name: 89 THINNER

Product Class: Organic solvents

Chemical Type: Alkyl esters, alcohol, ketones

Manufacturer: BJB Enterprises, Inc., 14791 Franklin Avenue, Tustin, CA 92780, Phone (714) 734-8450, Fax (714) 734-8929, (M-Th: 8-4:30, F: 7:30-4), Emergency Phone: Chemtrec (800) 424-9300 or (703) 527-3887

Section 2 - Composition / Information on Ingredients

Ingredient Name	CASRN	% wt
1. Isobutyl acetate	110-19-0	30-40
2. Methyl N-Propyl ketone	107-87-9	20-40
3. Isopropyl alcohol	67-63-0	10-20
4. Methyl N-Amyl ketone	110-43-0	5-10

Trace Impurities: N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		OTHER LIMITS
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	150 ppm	NE	150 ppm	NE	NE	NE	STEL 187
#2	200 ppm	NE	200 ppm	NE	NE	NE	STEL 250
#3	400 ppm	NE	400 ppm	NE	NE	NE	STEL 500
#4	100 ppm	NE	50 ppm	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear liquid; Odor: Ester; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Use in well-ventilated areas. Burning material may generate trace amounts of toxic fumes/gases.

HMIS
H 1
F 3
R 0
PPE†
†Sec. 8

Potential Health Effects

Primary Entry Routes: Eye and skin contact; inhalation of vapors, accidental ingestion.

Inhalation/Ingestion: May cause irritation. High concentrations may induce nausea, torpor, and/or headache discomfort.

Eye: May cause irritation and redness.

Skin: May cause irritation and possible sensitization to further exposure.

Medical Conditions Aggravated by Long-Term Exposure: None known

Section 4 - First Aid Measures

Inhalation: Remove to fresh air environment.

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.

Eye Contact: Flush eyes with clean, lukewarm water or collyrium eyewash for 15 minutes. Obtain medical attention if irritation develops.

Skin Contact: Remove contaminated clothing and wash affected areas well with soap and water. Launder contaminated clothing before use.

Note to Physicians: Treat any ill effects symptomatically.

Section 5 - Fire-Fighting Measures

Flash Point/Method: 60°F (16°C) T.C.C.

Autoignition Temperature: N/A

Flammability Classification: Class I-B

Extinguishing Media: Foam, dry chemical extinguisher, or carbon dioxide (for class B fires).

Unusual Fire or Explosion Hazards: Flammable. Vapors may cause flash fire or ignite explosively.

Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.



Section 5 - Fire-Fighting Measures (cont'd)

Hazardous Combustion Products: Burning material will generate fumes/gases containing carbon monoxide and carbon dioxide.

Fire-Fighting Instructions: Cool fire exposed containers with water spray. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Firefighters must wear positive pressure self-contained breathing apparatus (SCBA) for fighting large fires. Consider the use of unmanned hose holders or monitor nozzles when fighting large fires.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Provide adequate ventilation and wear personal protective equipment. Avoid ignition sources. Evacuate personnel as a precaution. Prevent product spill from entering sewers, streams, or drinking water supplies. Collect liquid or soak up with inert filler or an absorbent such as dry earth, sand or oil absorbent (sweeping) compound. Collect liquid into suitable containers for disposal. Wash area with dilute ammonia solution.

Containment: For large spills, dike ahead of liquid spill for later neutralization, absorption, clean up, and disposal.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapor directly over open container. Keep containers closed when not in use. Avoid excessive heat.

Storage Requirements: Store in a cool, dry place, designated and approved for flammable storage in original or similar waterproof containers. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

Shelf life: 6 months from date of shipment under manufacturers recommended storage conditions.

Section 8 - Exposure Controls / Personal Protection

Eye Protection Requirements: Safety goggles or glasses are recommended. Plastic face shield should be worn for complete face protection.

Skin Protection Requirements: Impermeable gloves should be worn. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Ventilation/Respiratory Requirements: Use in a well-ventilated area. An organic vapor cartridge or fresh air supplied respirator 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).

Additional Protective Measures: Safety showers and eye wash stations should be easily accessible to the work area. Working training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Clear; ester

Vapor Pressure: 25 mm Hg

Specific Gravity (H₂O=1): 0.83

pH: N/A

Water Solubility: Slight

Boiling Point: 175°-250°F (79°-121°C)

% Volatile: 100

V.O.C. (ref EPA meth 24): 830 gm/liter

Section 10 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: N/A

Chemical Incompatibilities/Conditions to Avoid: None known

Hazardous Decomposition: Thermal decomposition can produce fumes containing carbon monoxide.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of in compliance with federal, state, or local environmental control regulations for proper disposal of hazardous or flammable waste.

Section 14 - Transport Information

Shipping Name: Flammable liquid, n.o.s.	DOT (USA): Regulated
Technical Name: (Contains Ester, Ketone, Alcohol blend)	Class 3, PG II
Hazard Class: Class 3	IATA/ICAO: Regulated
ID No.: UN1993	Class 3, PG II
Packing Group: II	IMO/IMDG: Regulated
Label: Flammable liquid	Class 3.2, PG II

Section 15 - Regulatory Information**U.S. Federal Regulations:****OSHA:**

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

SARA TITLE III:

Sections 311/312 Hazard Classification: None

Section 313: This product contains the following substances subject to the reporting requirements of EPCRA, Section 313 and 40 CFR Part 372:

None

TSCA: This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following substances subject to export notification under Section 12 (b) of TSCA:

None

Section 16 - Other Information

Reason for Issue: Revised Section 15

Prepared By: S.F. Marks

Approval Date: 02/03/2003

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