

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List) Propane
 Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Bernzomatic	Emergency Telephone Number 716-798-4949
Address (Number, Street, City, State, and ZIP Code) One Bernzomatic Drive Medina, NY 14103	Telephone Number for Information 716-798-4949
	Date Prepared 09-01-91
	Signature of Preparer (optional) <i>Robert L. Maxon</i>

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Propane CAS #74-98-6	1000 ppm	1000 ppm	NA	100

NFPA HAZARD RATINGS

Health - 1
 Flammability - 4
 Reactivity - 0

NOTE: When propane fuel is burned efficiently the normal by-products of combustion are CO₂ and H₂O. Inefficient burning may add CO to the by-products of combustion.

Section III — Physical/Chemical Characteristics

Boiling Point	-44°F	Specific Gravity (H ₂ O = 1)	Liquid @ 60°F	.51
Vapor Pressure (mm Hg.) @ 100°F	197 psig	Melting Point		N/A
Vapor Density (AIR = 1) @ 1 ATM @ 60°F	1.56	Evaporation Rate (Butyl Acetate = 1)		N/A
Solubility in Water	Not Soluble			
Appearance and Odor	Colorless - Rotten Egg Odor			

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	-156°F Closed Cup	Flammable Limits	LEL 2.1	UEL 9.5
Extinguishing Media	Stop flow of gas or oxygen			
Special Fire Fighting Procedures	Use water to cool tanks			

Unusual Fire and Explosion Hazards
 Auto ignition temp. 842°F Heavier than air (vapor density 1.5)
 May travel a considerable distance to a source of ignition and flashback.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	N/A
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts None			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation? yes	Skin? yes	Ingestion? no
Health Hazards (<i>Acute and Chronic</i>) Contact with liquid propane may cause frost burns.			
Carcinogenicity:	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure High concentrations may cause headaches and drowsiness.			
Medical Conditions Generally Aggravated by Exposure N/A			
Emergency and First Aid Procedures Remove exposed person from contaminated area.			

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	
Remove ignition sources and ventilate area.	
Waste Disposal Method	Vent gas to atmosphere in flame free, spark free area outdoors.
Precautions to Be Taken in Handling and Storing	Store at temperatures below 120°F in well ventilated, spark free, flame free area.
Other Precautions	None

Section VIII — Control Measures

Respiratory Protection (<i>Specify Type</i>) Not required with normal use.			
Ventilation	Local Exhaust	N/A	Special N/A
	Mechanical (<i>General</i>)	N/A	Other N/A
Protective Gloves	Not required	Eye Protection	Not required
Other Protective Clothing or Equipment Not required			
Work/Hygienic Practices N/A			

SECTION IX - SHIPPING INFORMATION

WHMIS CLASSIFICATION A - Compressed Gas & B1 - Flammable Gas			
DOT	PROPER SHIPPING NAME Propane	HAZARD CLASSIFICATION Flammable Gas	UN. NO. 1075