Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. This 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)*	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.
BernzOmatic BF55 Butane Fuel	

Section I

Manufacturer's Name	Emergency Telephone Number
BernzOmatic	800-654-9011
Address *(Number, Street, City, State, and ZIP Code)*	Telephone Number for Information
	800-424-9300
1 Bernzomatic Drive	Date Prepared
	August 2010
Medina, NY 14103	Signature of Preparer *(optional)*

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional*
Liquefied Petroleum Gas				
N,Butane, volume (CAS #106-97-8)	1000 ppm	1000 ppm		22%
Isobutane, volume (CAS #75-28-5)	1000 ppm	1000 ppm		78%

Section III - Physical/Chemical Characteristics

Boiling Point	-11.7°F	Specific Gravity (H_2O = 1)	0.5676
Vapor Pressure (mm Hg.)	Approx. 28 psig	Percent Volatile by Weight	100%
Vapor Density (AIR = 1)	Greater than 2	Evaporation Rate (Butyl Acetate = 1)	Gas
Solubility in Water	Less than 0.1% by weight @70°F		
Appearance and Odor	Liquefied compressed gas, flash evaporates at room temperature when released from can, colorless gas with essentially no odor.		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Less than -117EF	Flammable Limits Extremely Flammable (Reference - Consumer Product Commission, flame projection test for aerosol products, per 16 CFR500.45)	LEL LEL% 1.8	UEL UEL% 8.4
Extinguishing Media	If feasible, stop flow of gas. Use water to cool fire-exposed cans, surroundings and to protect personnel working on shut off. Water spray, dry powder or carbon dioxide can be directed at flame area, if gas flow cannot be stopped, to reduce fire intensity. DO NOT COMPLETELY EXTINGUISH FLAME UNLESS GAS FLOW IS SHUT OFF!		
Special Fire Fighting Procedures	Avoid possible accumulations of vapors at floor level, as vapor is heavier than air. Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. This product is extremely flammable at all times. Keep away from any sources of inadvertent ignition, including heat, fire, sparks, or flame.		
Unusual Fire and Explosion Hazards	This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing Apparatus against the hazardous effects of normal products of combustion of oxygen deficiency. Petroleum gases are heavier than air and travel along the ground or into drains to possible distant ignition sources, causing an explosive flashback.		

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	Stable when stored as a liquid in cans under its own pressure.	Contact with sparks, open flame or any source of ignition.
Incompatibility *(Materials to Avoid)*			
Hazardous Decomposition or Byproducts May produce carbon monoxide when oxidized with deficiency of oxygen.			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation, skin contact, eye contact	Inhalation? YES	Skin? YES	Ingestion? NO
Health Hazards *(Acute and Chronic)*			
Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
None of the components in this material are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.			
Signs and Symptoms of Exposure			
Inhalation	This product is an asphyxiate and may exhibit anesthetic properties at very high concentrations. Initial symptoms of exposure at these concentrations are disorentation, lack of coordination, rapid respiration, headache, and nausea. Continued exposure May result in unconsciousness, coma, and possible death.		
Skin Contact	Vapors are not irritating. Freeze burns or frostbite possible if skin is in prolonged contact with vaporizing liquid.		
Eye Contact	Same as skin contact.		
Medical Conditions Generally Aggravated by Exposure			
Respiratory related chronic illnesses (i.e. asthma etc.)			
Emergency and First Aid Procedures			
Inhalation	Remove to fresh air. Artificial respiration, consult physician.		
Skin Contact	Wash with soap and water. Remove soaked clothing to avoid prolonged skin contact.		
Eye Contact	Flush eyes well with running water for 15 minutes.		
Ingestion	NA, product is gaseous at normal temperature and pressure.		

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Protect from any ignition source, keep away from heat, fire, sparks, or flame. Ventilate area well. Avoid accumulation of vapor at low levels.
Waste Disposal Method
Dispose of in accordance with all local, state and federal regulations. Do not puncture or incinerate.
Precautions to Be taken in Handling and Storing
Do not store where temperature may exceed 120°F. Store away from, fire, sparks, or flame. Store in suitable area for hazardous materials storage.
Other Precautions

D.O.T. Shipping Classification	Butane, 2.1
Hazard Class	2.1
ID Number	UN1011
Label Required	Flammable Gas

TSCA Statement: All the components of this product are in compliance with the Toxic Substances Control Act (TSCA) and are either listed on the TSCA Inventory or otherwise exempted from listing.

Section VIII - Control Measures

Respiratory Protection *(Specify Type)* If TLV is exceeded wear NIOSH-approved self-contained breathing device or respirator.		
Ventilation Must be adequate to maintaining airborne concentrations below established exposure limits, particularly at floor level as vapors are heavier than air.	Local Exhaust	Special
	Mechanical *(General)*	Other

Protective Gloves None needed for normal use. Thermal insulated gloves when handling if prolonged exposure expected.	Eye Protection Safety glasses or goggles recommended
Other Protective Clothing or Equipment	
Work/Hygienic Practices	

Section IX - Special Precautions

Precautions to be taken in Handling and Storing Do not use near heat, fire, flame or sparks. Avoid excessive breathing of vapor. Do not spray in direction of body. Use only in accordance with directions.
Other Precautions

Each MSDS must be reviewed for correctness and completeness every three years.

Reviewed by _____ Reviewed by _____

Revision date _____ Revision date _____