MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. To be valid all information required by 1910.1200(g) of the Standard must appear on this form. Consult the Standard for specific requirements. 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.	Quick Name Identifier/Common Name: **Butane Lighter** UPC/SKU: M0001, M0001-12

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured For: Candle Lamp Company 1799 Rustin Avenue Riverside, CA 92507	24 Hour Emergency Telephone Number: 1-800-255-3924 or 1-813-977-3668 (Collect Calls Accepted) Information Telephone Number: 1-951-682-9600
	Date Prepared: 12/6/09
General or Generic Name: Butane, Propane	

SECTION 2– COMPOSITION/INFORMATION ON INGREDIENTS

Trade Name	CAS #	Concentration (%)	OSHA PEL	ACGIH TLV	Other Limits Recommended
Butane (n-Butane)	106-97-8	80	N/A	800 PPM	NIOSH-800 PPM
Propane (n-Propane)	74-98-6	20	1,000 PPM	1000 PPM	NIOSH-1,000 PPM

SECTION 3 – HAZARDS IDENTIFICATION

Route(s) of Entry	Inhalation, skin and/or ingestion.
Health Hazards (Acute and Chronic)	Extreme flammability; vapor clouds easily ignited; simple asphyxiation; frostbite to skin and eyes from contact with liquid gases.
Carcinogenicity	None
Signs and Symptoms of Exposure	Drowsiness or dizziness possible at low concentrations of the gases.
Medical Conditions Generally Aggravated by Exposure	Personnel with pre-existing chronic respiratory diseases should avoid exposure to these gases.

SECTION 4 – FIRST AID MEASURES

Emergency and First Aid Procedures	Remove affected personnel from contaminated area to fresh air. For respiratory distress, give air, oxygen, and administer cardio-pulmonary resuscitation as needed. For burns to eye, remove contact lenses and immediately flush with water for at least 15 minute. Frozen skin should be flooded with warm water (105-115°F).

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Limits (% by volume)	LEL 1.8 UEL 8.4
Flash Point	-120°F (O.C.)
Fire Extinguishing Media	Carbon dioxide, dry chemical, fog or water spray.
Special fire Fighting Procedures	Confine fire to immediate area. Disperse liquid or vapor if leaks occur.
Unusual Fire and Explosion Hazards	Will form explosive mixtures from air. Vapors from liquefied gas initially heavier than air and spread along ground. Vapors may travel to ignition source and flash back.
NFPA Rating: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme	Health – 1, Flammability – 4, Reactivity - 0
HMIS Rating: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme	Health – 0, Flammability – 4, Reactivity - 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of Spill	Remove all ignition sources. Ventilate area of leak to disperse the gas.

SECTION 7 – HANDLING AND STORAGE	
Handling & Storage	Store in a cool, dry place. Keep away from heat, sparks and flame. Do not store in temperatures exceeding 120°F or in direct sunlight.
Other Precautions	Do not store with strong acids (e.g. hydrochloric acid, sulphuric acid), strong bases (e.g. sodium hydroxide, potassium hydroxide), oxidizing agents (e.g. perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, fluorine, bromine) and mixtures of nickel carbonyl and oxygen.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION	
Respiratory Protection	Not required for normal use. For excessive gas concentrations use NIOSH/MSHA approved SCBA.
Ventilation	Local Exhaust: Maintain level below .25 LEL. Mechanical (General): Maintain level below .25 LEL
Protective Gloves	Rubber gloves.
Eye Protection	ANSI approved chemical workers goggles.
Other Protective Clothing and Equipment	Not required.
Work/ Hygienic Practices	On skin contact with butane, immediately immerse the affected body part in warm water.

SECTION 9 – PHYSICAL DATA AND CHEMICAL PROPERTIES	
Boiling Point	10.9°F
Vapor Pressure (mm Hg)	1823
Vapor Density (Air = 1)	2
Solubility in Water	@ 77°C, 17cc per 1000cc of water
Appearance and Odor	Clear, Odorless
Specific Gravity (H_2O = 1)	0.56
Melting Point	N/A
Evaporation Rate (Butyl Acetate = 1)	>1

10. STABILITY AND REACTIVITY	
Stability	Stable.
Conditions to Avoid	Heat, sparks, open flame.
Incompatibility (Materials to Avoid0	Strong acids, alkalis and oxidizers
Hazardous Decomposition or Byproducts	Combustion may produce carbon monoxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION – N/A

12. ECOLOGICAL INFORMATION – N/A

13. DISPOSAL INFORMATION	
Waste Disposal Method	Discharge at moderate rate in well ventilated area without ignition sources.

14. TRANSPORTATION	
WHMIS Classification	A-Compressed Gas B-1-Flammable Gas
Department of Transportation	Proper shipping name: Lighters, *containing flammable gas* Hazard Classification: DOT 2.1 Identification Number: UN1057

15. REGULATORY INFORMATION	
Respirator Information	In the absence of local approval authorities/standards, follow US NIOSH/MSHA, UK BSI regulations. Respirators must meet either the above or local standard for approved respirators.

16. OTHER INFORMATION

The above data is based on tests and experience, which Candle Lamp Company believes reliable and is supplied for informational purposes only. The Candle Lamp Company's products are intended for sale to industrial and commercial customers. Candle Lamp Company requests that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Some information presented and conclusions drawn herein may be from sources other than direct test data on the substance itself. Candle Lamp Company disclaims any liability for damage or injury which results from the use of the above data, and nothing contained therein shall constitute a guarantee, warranty (including warranty or merchantability) representation (including freedom from patent liability) by the Candle Lamp Company with respect to data, the product described, or their use for any specific purpose, even if that purpose is known to Candle Lamp Company.