

MATERIAL SAFETY DATA SHEET

CODE: M/L 1136

This Material Safety Data Sheet complies with the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200

**PRODUCT: BUTANE FUEL**

COMMON NAME OR SYNONYMS: Includes trade name products: LENOX® Sterling 1oz Butane Fuel

NFPA/HMIS HAZARD CODES: HEALTH: 1/1 FIRE: 4/4 REACTIVITY: 0/0 SPECIAL: N/A

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL FAMILY: Hydrocarbon, LP Gas **ISSUE DATE:** October, 2004
CHEMICAL NAME: LP Gas, A-28
FORMULA: C₄H₁₀
PRODUCT CAS NO.: Liquefied Petroleum Gas
PRODUCT USE: Torch Fuel
SUPPLIER: LENOX®
ADDRESS: 1690 Lowery Street, Winston-Salem, NC 27101
PHONE: (336) 777-8600

SECTION II COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>VOLUME %</u>
N, Butane, volume	106-97-8	22
Isobutane, volume	75-28-5	78

NOTE: The percentage by volume values reported for the ingredients in this product represent approximate formulation values.

NOTE: See Section VIII for the Exposure Limits and Section XI for the Toxicological Information.

SECTION III PHYSICAL DATA

BOILING POINT: -11.7F
PRESSURE IN CAN AT 70°F: Approx. 28 psig
VAPOR DENSITY (AIR=1): Greater than 2
SOLUBILITY IN WATER: Less than 0.1% by weight @70°F
SPECIFIC GRAVITY (WATER=1): 0.5676
PERCENT VOLATILE BY WEIGHT: 100%
EVAPORATION RATE (Bu Ace=1): Gas
APPEARANCE AND ODOR: Liquefied compressed gas, flash evaporates at room temperature when released from can, colorless gas with strong mercaptan (skunk-like) odor due to stenching agent added to gas for leak detection purposes.

SECTION IV HAZARDOUS REACTIVITY

STABILITY: Stable when stored as a liquid in cans under its own pressure.
CONDITIONS TO AVOID: Contact with sparks, open flame or any source of ignition.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Products may produce carbon monoxide when oxidized with deficiency of oxygen.

SECTION V FIRE AND EXPLOSION DATA

FLAMMABILITY CATEGORY: Extremely flammable (Reference - Consumer Product Commission, *flame projection test for aerosol products, per 16 CFR 1500.45*)

FLASH POINT: Less than -117°F

FLAMMABLE LIMITS: LEL% 1.8 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!

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 or 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.

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.

SECTION VI HEALTH HAZARD INFORMATION

SUGGESTED EXPOSURE GUIDELINE: 1000 ppm

PRIMARY ROUTE OF EXPOSURE: Inhalation, skin contact, eye contact

INHALATION: This product is an asphyxiate and may exhibit anesthetic properties at very high concentrations. Initial symptoms of exposure at these concentrations are disorientation, 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.

CARCINOGENICITY: None of the components in this material are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

SECTION VII FIRST AID

INHALATION: Remove to fresh air. Obtain immediate medical attention.

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. Obtain immediate medical attention.

INGESTION: N/A; product is gaseous at normal temperature and pressure.

SECTION VIII SPILL OR LEAK PROCEDURES

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.

SECTION IX SPECIAL PROTECTION INFORMATION

RESPIRATION PROTECTION: 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.

PROTECTIVE GLOVES: None needed for normal use. Thermal insulated gloves when handling if prolonged exposure expected.

EYE PROTECTION: Safety glasses or goggles recommended

SECTION X HANDLING AND STORAGE PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

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Do not store where temperature may exceed 120°F. Store away from, fire, sparks, or flame.
Store in suitable area for hazardous materials storage.

D.O.T. SHIPPING CLASSIFICATION: Consumer Commodity, ORM-D

LABEL REQUIRED: Carton must be marked - Consumer Commodity ORM-D

SECTION XI SPECIAL PRECAUTIONS

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.

SECTION XII ADDITIONAL INFORMATION

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