



MATERIAL SAFETY DATA SHEET

MSDS # 15 ST06000
REVISED DATE: 6-14-2007
PRODUCT NAME: STERNO® BRAND BUTANE FUEL

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ACUTE HEALTH 1 FIRE 4 REACTIVITY 0 HMIS HAZARD RATING: LEAST- 0, SLIGHT- 1, MODERATE- 2, HIGH- 3, EXTREME- 4

PRODUCT NAME: STERNO® BRAND BUTANE FUEL
UPC/SKU #: ST06000
CAS NUMBER: 106-97-8
GENERAL USE: For use in butane gas stoves.

The STERNO GROUP
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Des Plaines, IL USA 60018

U.S., CANADA AND MEXICO:

For consumer information: Call toll free: 1 (888) – 4-LITES-1.
For emergencies involving spill, leak, fire, exposure or accident, call CHEMTREC: 1 (800) 424-9300, day or night.
For medical emergencies only, call toll free: 1 (888) 313-8954.

INTERNATIONAL:

For emergencies involving spill, leak, fire, exposure or accident, CALL 1-(703) 527-3887(located in the US).
For medical emergencies call your local Poison Control Center or the US Medical Emergency Center at (651) 632-8954.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS (present at a concentration > or = 1%):

Component	CAS #	%	PEL	TLV
Butane	106-97-8	95	N/A	800 ppm

SECTION 3 - HAZARDS IDENTIFICATION

PRECAUTIONARY LABELING: DANGER. Extremely flammable. Contents under pressure. Keep out of reach of children. Do not puncture or incinerate this container. Do not expose to heat or flame. Do not store at temperatures above 120°F/49°C. Empty container before discarding in trash. **WARNING:** Valve stem may break if can is dropped and cause uncontrolled release of flammable gas. Keep cap on when not in use. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Do not discard this container in fire or incinerator. Detach container when not in use. Always close burner valve before removing cylinder. Container not refillable. Odorant added. Use only in well ventilated areas. For use only in UL approved Portable Butane Gas appliances. Keep contents at temperature above 32°F/0°C before using.

EYE CONTACT: This product is a gas at room temperature so adverse effects are not expected. Direct contact with liquefied pressurized gas may produce severe and possibly permanent eye damage from frostbite.

SKIN CONTACT: This product is a gas at room temperature so adverse effects are not expected. Direct contact with liquefied pressurized gas may produce frostbite.

INHALATION: Inhalation may cause irritation, difficulty breathing, irritation, nausea, vomiting, headache, dizziness, visual distress, muscular weakness, tremors, narcosis, unconsciousness and coma. Depending on concentration and duration of exposure.

INGESTION: Not a likely route of exposure.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: If liquid butane contacts the eyes, warm the area of contact and seek immediate medical attention.

SKIN CONTACT: If liquid butane contacts the skin, warm the area of contact with warm water or blankets. If frostbite occurs seek immediate medical attention.

INGESTION: Not a likely route of exposure.

INHALATION: Remove from exposure immediately. If victim is not breathing, perform artificial respiration(rescue breathing) if needed. Seek immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): -76°F/-60°C

AUTOIGNITION: 761°F/405°C

FLAMMABLE LIMITS IN AIR: VOL.% @21°C/70°F, LEL & UEL = 1.9 - 8.5

EXTINGUISHING MEDIA: CO₂, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Use Equipment or shielding required to protect personnel against bursting, rupturing, or venting containers. Do not heat container. Store below 110°F in a ventilated area.

UNUSUAL FIRE AND EXPLOSION HAZARD: At elevated temperatures (over 54°C/130°F) RVR of containers will be operated, but rapidly excess heating or fire will cause burst or rupture of a container. Danger: Extremely Flammable. Do not expose cylinder to fire or flames.

SECTION 7 - HANDLING AND STORAGE

STORAGE: Store in a cool dry place. Provide adequate ventilation in area of use. Store away from sources of heat or open flame. Keep container closed. Subject to storage regulations: U.S. OSHA 29 CFR 1910.110. Do not expose to heat or store at temperature Above 120°F, keep contents at temperature above 32°F. Keep separated from incompatible substances. Keep out of reach of children.

HANDLING: Store and handle in accordance with all current, regulations and standards. Grounding and bonding required.

OCCUPATIONAL RELEASE: Avoid heat, flames, sparks, and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Keep unnecessary people away, isolate hazard area entry. Remove sources of ignition.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Butane:

800 ppm (1900mg/m³) ACGIH TWA

800 ppm (1900mg/m³) NIOSH recommended TWA 10 hour(s)

GENERAL CONTROLS: Avoid contact with liquid butane.

PROTECTIVE CLOTHING: If canister is intact, no personal protective equipment is required.

VENTILATION: Provide adequate ventilation. Ventilation equipment should be explosion-resistant, if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

RESPIRATORS: Not required under normal conditions of use. In the case where the exposure limit is exceeded: use full-facepiece Self-Contained Breathing Apparatus (SCBA).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear an odorant added

SPECIFIC GRAVITY/DENSITY: 0.60 mg/m³

FREEZE/MELT POINT: -217°F

PERCENT VOLATILES: N/A

SOLUBILITY IN DIONIZED WATER: Limited solubility in water

VAPOR PRESSURE: 2kg/cm³(28.4psig) at 21°C(70°F)

VAPOR DENSITY: Heavier > 1.0 at 15-32°C(60-90°F)

BOILING POINT: below 2°C(35.6°F) at 101.3Kpa(760mmhg)°C(70°F)

EVAPORATION RATE: N/A

SECTION 10 - STABILITY AND REACTIVITY

GENERAL: This product is stable at normal temperatures and pressures. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS: Oxidizing materials (chlorine, fluorine, nitrates, perchlorates and nickel carbonyl + oxygen).

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, welding, oxidation, high temperature): Oxides of carbon.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Containers may rupture if exposed to heat.

SECTION 11 - TOXICOLOGICAL INFORMATION

No information on product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

No information on product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

SUBJECT TO DISPOSAL REGULATIONS: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. Dispose in accordance with all applicable local, state, and federal laws and regulations (contact local or state environmental agency for specific rules). The purchaser is responsible for proper waste disposal of empty, partial, or full cans.
Do not dump into sewers, any body of water, or onto the ground.

DISPOSAL: To dispose of properly, empty container before discarding in standard trash receptacle. **DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.**

SECTION 14 - TRANSPORTATION

DOT CLASSIFICATION: ST06000

U.S. DOMESTIC: Liquified Petroleum Gas, 2.1, UN 1075

INTERNATIONAL: Liquified Petroleum Gas, 2.1, UN 1075

FORBIDDEN TO SHIP BY PASSENGER AIRCRAFT/PASSENGER RAIL.

SECTION 15 - REGULATORY INFORMATION

TSCA: All components in this product are in the TSCA inventory.

CLEAN WATER ACT: No information available at this time.

SARA: Not listed in the SARA section 302, 304 or 313.

SARA HAZARD CATERGORIES, SARA SECTION 311/312 (40 CFR 370.21): ACUTE: YES; CHRONIC: NO; FIRE: YES; REACTIVE: NO;

SUDDEN RELEASE: YES

CERCLA: Not listed in the CERCLA hazardous substance list.

OSHA: This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

STATE REGULATIONS: California Proposition 65 no.

EUROPEAN REGULATIONS: EC NUMBER not assigned.

SECTION 16 - OTHER INFORMATION

FOR OTHER PRODUCT INFORMATION CONTACT:

The STERNO GROUP
303 Falvey Blvd.
Texarkana, Texas 75501-6620
1-(903) 223-3400

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MSDS REVISION INDICATORS: Revised Sections 14, 16, and header.

ORIGINAL DATE: January 24, 2005

REVISION DATE: JUNE 14, 2007, SUPERSEDES: June 9, 2005

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