

MSDS - Material Safety Data Sheet**Product Name: Butane Fuel Canister**

MSDS No.: SCW103/5

I. Basic Information:**Manufacturer:** Sirchie Finger Print Laboratories**Address:** 100 Hunter Place**City, ST Zip:** Youngsville, NC 27596**Emergency Contact:** ChemTrec**Emergency Telephone Number:** 800-424-9300**Contact:** Tech Support**Information Telephone Number:** 919-554-2244**Last Update:** 02/02/2011**Expiration Date:****Chemical State:** Liquid Gas Solid**Chemical Type:** Pure Mixture

1	Health
4	Flammability
1	Reactivity
B	Pers. Protection

II. Ingredients: Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z						
106978	Butane	<2.5							800 ppm	800 ppm	
75081	Ethaneithiol	0-50 ppm							0.5 ppm	0.5 ppm	
74986	Propane	>90							1,000 ppm	1,000 ppm	-156 F
115071	Propylene	<5					X	NE	NE		

III. Hazardous Identification:**Hazard Category:** Acute Chronic Fire Pressure Reactive**Hazardous Identification Information:**

Respiratory tract irritant. Skin and eye irritant. May cause central nervous system depression. May cause narcosis based on animal testing.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

IV. First Aid Measures:**Route(s) of Entry:**

Inhalation, ingestion, skin, eyes

Health Hazards (Acute and Chronic):

Acute: Freeze-burns to the skin and eyes

Signs and Symptoms:

Inhalation: Dizziness, headache, disorientation, excitation, fatigue, inability to concentrate, vomiting, coughing, anesthesia, unconsciousness, death

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory diseases

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Emergency and First Aid Procedures:

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

Ingestion: If victim is conscious and alert, give 2 cups of water. (Never give anything by mouth to an unconscious person!) Induce vomiting. Get medical attention immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if condition warrants.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if condition warrants.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: -156 F

Lower Explosive Limit: 2.1

Upper Explosive Limit: 9.5

F.P. Method:

Fire Extinguishing Media: Dry chemical, foam, carbon dioxide

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. Shut off source, if possible. Water fog or spray may be used to cool fire-exposed containers. Allow fire to burn until gas flow is shut off, if possible.

Unusual Fire and Explosion:

Vapors from this product may travel some distance from original point to an ignition source and flash back. Heated containers may rupture violently and suddenly without warning due to vessel over-pressure (BLEVE). Fragmentation of the container should be anticipated. If flame is against the container, withdraw immediately on hearing a rising sound, if venting increases in volume or intensity, or if there is discoloration of the container due to fire.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Shut off source, if possible. Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks). Contain spill. Soak up with dry, inert absorbent material (sand or clay recommended; do not use flammable substances such as sawdust). Scoop up with non-sparking equipment. Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Precautions to be Taken:

Keep in tightly closed container. Secure container to prevent damage. Do not puncture or incinerate container. Avoid incompatible materials. Avoid all ignition sources (heat, open flame, spark). Bond and ground during transfer. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor. Wash thoroughly after handling.

Other Precautions:

Store in containers that have been properly purged and passified. (Oxidation of ethanethiol may occur in the presence of rust, air, or water.)

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use only in well-ventilated areas.

Personal Protective Equipment:

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Safety goggles, gloves

IX. Physical and Chemical Properties:

Boiling Point: -44 F

Melting Point: NE

Evaporation Rate (Butyl Acetate = 1): >1

Vapor Pressure (mm Hg.): 5,585

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): 1.5

Solubility In Water: Negligible

Appearance and Odor: Colorless liquefied petroleum gas

Other Information: Odor: Odorless, but repulsive if odorant (ethanethiol) has been added

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Ignition sources (heat, open flame, spark), oxygen, strong oxidizing agents, rust, moisture

Decomposition/By Products:

Carbon and sulfur dioxides

Hazardous Polymerization:

Does not occur.

XI. Toxicological Information:

Respiratory tract irritant. Skin and eye irritant. May cause central nervous system depression. May cause narcosis based on animal testing.

XII. Ecological Information:

Prevent from entering sewers or waterways.

XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

RCRA classification: Ignitable (D001)

Prior to disposal, consult your environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

XIV. Transport Information:

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IATA

Shipping name: Receptacles, small, compressed gas

Hazard class: 2.1

UN no.: 2037

Flammable gas!

XV. Regulatory Information:

This product meets the following hazard definitions as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200): compressed gas, flammable gas, health hazard.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

XVI. Other Information:

Be aware that with odorized product, the intensity of ethanethiol stench (its odor) may fade due to chemical oxidation (in the presence of rust, air, or moisture), adsorption, or absorption. Some people have nasal perception problems and may not be able to smell the ethanethiol stench. Other odors may mask or hide the ethanethiol stench. While ethanethiol may not impart the warning of the presence of propane in every instance, it is generally effective in a majority of situations. Familiarize yourself with this warning, and other facts associated with the so-called "odor-fade phenomenon."

Using this product under normal, properly instructed procedures should not be hazardous.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.