


BLAZER PRODUCTS**Safety Data Sheet**

Section 1		PRODUCT IDENTIFICATION
Product Name	Liquefied Petroleum Gas, Butane	
Recommended Use	As an ignition fuel for butane torches and lighters	
Synonyms/Trade Names	Butane, Blazer Butane	
Restrictions on Use	None known	
Manufacturer	Blazer Products, 88 Allen Blvd Farmingdale, NY USA 11735	
Emergency Phone Number	InfoTrac 800-535-5053 Outside USA +1-352-323-3500	

Section 2		HAZARD IDENTIFICATION
DANGER		Highly flammable liquid and vapor
GHS Classification	Flammable Gas Category 1 Gas under pressure, Liquefied gas	
Hazard Statement	Extremely flammable gas Contains gas under pressure May cause drowsiness and dizziness	
Prevention	Keep away from heat, sparks, open flame and hot services. No Smoking. Avoid inhaling. Use in well ventilate area.	

Section 3		COMPOSITION/INFORMATION ON INGREDIENTS		
Hazardous Components (chemical & common names)	Approximate Concentration %	C.A.S Number		
Petroleum Hydrocarbon		106-97-8		
Liquefied Petroleum Gas	56.5120			
N Butane	17.2794			
Iso-Butane	25.7867			
Propane	0.4219			

Section 4		FIRST AID MEASURES
Inhalation	If adverse effects occur, remove to fresh air. If breathing is difficult oxygen should be administered by qualified personnel. Seek medical attention if required.	
Eyes	Flush eyes with plenty of water for at least 15 minutes and seek medical advice.	
Skin Contact	Wash immediately with plenty of water. If frostbite occurs seek medical attention.	
Ingestion	If a large amount is swallowed do not induce vomiting. Seek medical attention.	

Section 5		FIRE-FIGHTING MEASURES
Specific Hazards	Severe explosion hazard. Vapor/air mixture are explosive. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back.	
Extinguishing Media	Use dry chemical, CO2 or appropriate foam	
Fire Fighting Methods and Protection	Wear full fire-fighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.	
Hazardous Combustion Products	Carbon dioxide, Carbon monoxide.	

Section 6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Wear personal protective clothing including respiratory protection as warranted. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental Precautions	Avoid release to the environment.
Containment Methods	Use dry chemical, CO2 or appropriate foam. Do not touch spilled material. Reduce waters with water spray. Contain with foam.
Cleanup Methods	Remove sources of ignition. Isolate area. Ventilate closed spaces.

Section 7 HANDLING AND STORAGE	
Handling Procedures	Keep away from heat and ignition sources. Use only with adequate ventilation. Wash thoroughly after handling.
Storage Procedures	Store in a cool/low temperature, well-ventilated place away from heat and ignition.
Incompatibilities	Oxidizing materials.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Component Exposure Limits	
Iso Butane	800 ppm (1900 mg/m3) NIOSH recommended TWA 10 hour(s)
Liquefied Petroleum Gas	1000 ppm (1800 mg/m3) OSHA TWA 1000 ppm ACGIH TWA 1000 ppm (1800 mg/m3) NIOSH recommended TWA 10 hour(s)
N Butane (106-97-8)	ACGIH 1000 ppm STEL
Engineering Controls	Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.
Personal Protective Equipment	
Eyes/Face	For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Protective Clothing	For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.
Gloves	Wear insulated gloves.
Respirator	The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. 2000 ppm - Any supplied-air respirator. Any self-contained breathing apparatus with a full face piece. Escape - Any appropriate escape-type, self-contained breathing apparatus. For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face piece.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES			
Physical State	Liquefied gas	Appearance/Description	Colorless, gas
Color	Colorless	Physical Form	Gas
Odor	Unpleasant odor	Odor Threshold	6.16 ppm
Boiling Point	-0.5 C	Flash Point	120°F
Decomposition	N/A	Evaporation Rate	N/A
Vapor Density (Air=1)	2.0	Specific Gravity	0.60
Solubility in Water	Slight	Vapor Density (Air=1)	2.0

Section 10		STABILITY AND REACTIVITY	
Reactivity	No reactivity is expected	Chemical Stability	Stable at normal temp, pressure
Hazardous Polymerize	Will not occur	Incompatible Materials	Oxidizing materials
Hazardous Decomposition	Oxides of carbons	Odor Threshold	6.16 ppm
Conditions to Avoid	Heat, flames, sparks and other sources of ignition		

Section 11		TOXICOLOGICAL INFORMATION	
Acute and Chronic Toxicity. Component Analysis –LD50/LC50 The components of this material have been reviewed in various sources and the following selected endpoints are published. Inhalation LC50 rat 658 g/m3 4 h			
RTECS Acute Toxicity (selected) The components of this material have been reviewed, and RTECS publishes the following endpoints;			
N-Butane (106-97-8)	Inhalation:	680000 mg/m3/2 hour Inhalation Mouse LC50	
		658000 mg/m3/4 hour Inhalation Rat LC50	
Acute Toxicity Level			
Non Toxic	Inhalation	Immediate Effects	Frostbite, central nervous system effects.
Delayed Effects	No information on significant adverse effects.		
Component Carcinogenicity	None of this products components are listed by OSHA, ACGIH, DFG, IARC or NTP		
Delayed Effects	No information on significant adverse effects.		
Chronic Effects			
Mutagenic	None known.	Respiratory Sensitizer	No data available.
Aspiration Hazard	Not applicable.	Reproductive Effects Data	No data available
Dermal Sensitizer	No data available	Medical Conditions Aggravated by Exposure	None known.

Section 12		ECOLOGICAL INFORMATION	
Persistence and Degradability	No available data	Bio accumulative Potential	Bioconcentration potential in aquatic organisms is moderate.
Mobility in Soil	Low	Other Adverse Effects	No available data

Section 13		DISPOSAL CONSIDERATIONS	
Disposal Methods	Dispose in accordance will local regulations. Subject to disposal regulations: US EPA 40 CFR 262 Hazardous Waste Number(s): D001		

Section 14		TRANSPORT INFORMATION			
US DOT Information Shipping Name	Butane	UN/NA #	UN1075	Required label(s)	2.1
IMDG Information Shipping Name	Butane	UN/NA #	UN1075	Required label(s)	2.1
		Packing Group	II		

Section 15		REGULATORY INFORMATION	
U.S. Federal Regulations: None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.			

Section 16		OTHER INFORMATION	
Last Revision Date	12/01/2019		
Preparation Date	4/02/2021		
Blazer Products makes no express or implied warranties, guarantees or representations regarding the product of the information herein, including but not limited to any implied warranty or merchantability or fitness for use. Blazer Products shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.			

End of Sheet

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910.1200 Standard must be consulted for specific requirements	QUICK IDENTIFIER - Common Name (Used on label and list) BUTANE GAS
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SECTION 1	
Manufacturer's Name & Address BLAZER PRODUCTS	Emergency Telephone Number (800) 424-9300
88 ALLEN BLVD	Other Information Calls (631) 694-5058
FARMINGDALE, NY 11735	Date Prepared 1/5/13

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY				
Hazardous Component(s) (chemical & common names)	Approximate Concentration %	C.A.S. Numbers	Exposure Limits	LD50/LC50 (Species and Route)
Petroleum Hydrocarbon (Liquefied Petroleum Gas, Butane)	100.0 %	106-97-8	(ACGIH) TLV – TWA 800PPM	(LC50) Inhalation (rat) 280,000 ppm/4 hrs

SECTION 3 – PHYSICAL DATA FOR MATERIAL			
Physical State Liquefied Gas	Appearance and Odor Clear gas (liquid under pressure) sweet odor	Specific Gravity 0.60	% Volatiles 100
Vapor Density (Air=1) 2.0	Evaporation Rate N/A	Boiling Point -0.5 C	Freezing Point -135C
Solubility in Water Slight	Coefficient of Water/Oil Distribution N/A	PH N/A	Flash point 120°F

SECTION 4 – FIRE AND EXPLOSION HAZARD OF MATERIAL
Conditions of Flammability - Extremely flammable. May be ignited at temperatures at or above the flashpoint
Means of Extinction - <i>Do not attempt to extinguish until source is off.</i> Dry chemical, Foam, carbon dioxide. Use water spray to cool fire exposed containers and disperse vapors from leaks or spills that have not been ignited.
Special Procedures Evacuate area. Wear full protective equipment and SCBA. Vapors are heavier than air and may travel to distant ignition sources and flash back. If possible, shut off source but do not extinguish flame until gas flow is shut off because explosive re-ignition exists. Remove cylinders from fire exposed area if possible to do so without risk.

N.F.P.A.	
Flammability	4
Reactivity	0
Health (Acute) (Chronic)	1 N

SECTION 5 PHYSICAL HAZARDS (REACTIVITY DATA)		
Chemical Stability Stable	Conditions to Avoid	High temperature, Heat Sources, Open Flames (Stable under normal conditions and use)
Incompatibility to Other substances Yes	If so, Which ones?	Unstable with strong oxidizers like liquid chlorine and concentrated oxygen.
Reactivity and under what conditions – Excessive heat, sources of ignition or contact with oxidizing materials may cause detonation. Rapid escape of liquid or vapor may generate static charge causing ignition. Hazardous polymerization will not occur		
Hazardous Decomposition and Combustion Products - Carbon monoxide, carbon dioxide, smoke		

SECTION 6 HEALTH HAZARDS TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry Skin contact, Eye contact, Inhalation

Effects of Acute Exposure to Product: Contact with liquefied gas may cause frostbite/cold burns. Butane acts as a simple asphyxiant as the oxygen in the air is displaced. At increasing concentration levels, butane acts as an anesthetic gas causing central nervous system depression creating an "impaired/narcosis" condition. Investigations have shown these conditions to disappear as fast in fresh air as they appeared in a matter of minutes. No permanent after effects have been identified.

Effects of Chronic Exposure to Product

N/A

Irritancy of Product

Yes

Exposure Limits of Product

See "Hazardous Ingredients"

LC50 of Product

See "Hazardous Ingredients"

Sensitization to Product

N.D.

Synergistic Material

N.D.

Other Toxicological Effects None.

The rapidity and severity of the narcosis increases with gas concentration right up to the onset of severe hypoxia (oxygen deprivation) above about 15% butane gas in air and eventual unconsciousness and death above that. A high gas the effects of narcosis and hypoxia may be difficult to distinguish as they are similar in many respects.

SECTION 7 PREVENTATIVE MEASURES

Personal Protective Equipment If contact with liquid is possible, wear chemical resistant insulated clothing.

Gloves Rubber and insulated

Eye Protection Safety glasses or chemical goggles

Respiratory Only in high concentration. Not normally required if used in a well ventilated area. If safe exposure limits are exceeded wear an air-supplied respirator (SCBA) or air line respirator equipped with escape bottle.

Engineering Controls Use only in well ventilated areas. Use with explosion proof mechanical ventilation in confined space or poorly ventilated areas. Lab samples should be handled with adequate ventilation. (use a fume hood if necessary)

Leak and Spill Procedure Evacuate and ventilate area. Mechanical ventilation. Eliminate all ignition sources. Contain (prevent entry into waterways) Wear protective equipment including SCBA. Stop leak if possible to do so without risk. Use water spray to disperse vapors.

Waste Disposal Incinerate in approved furnace or allow butane to vaporize and disperse at a safe location. (Consult federal, state, and local regulations)

Handling Procedures and Equipment Transfer product using proper grounding and bonding procedures. Keep away from heat, sparks and open flames. Keep out of direct sunlight. Avoid contact with skin or eyes. If contact with liquid is possible, wear chemical resistant, insulated clothing. Avoid breathing vapors. Use in well ventilated areas. Handle with care. Exposure to vaporizing liquid or rapidly expanding gas may cause frostbite

Storage Requirements Store in a cool, ventilated area away from oxidizers with valve off when not in use. Store away from heat and open flames. Protect cylinder from physical damage. Post "No Smoking or Open Flames" signs in storage or use area.

Special Shipping Information TDG: BUTANE Class 2.1 UN 1075

SECTION 8 FIRST AID MEASURES

Skin: Remove contaminated clothing. For frostbite, thaw frozen parts in lukewarm water, cover with blanket to keep warm. Seek medical attention.

Eye: Flush with warm water, running water for 15 minutes. Seek medical attention

Ingestion: Not likely

Inhalation: Rescuers should wear self contained breathing apparatus. Remove victim to fresh air. If not breathing, apply CPR. If breathing is difficult, give oxygen. Seek medical attention.

SECTION 9 PREPARATION OF M.S.D.S

Prepared by Blazer Products 88 Allen Blvd, Farmingdale, NY 11735 Telephone: 631-694-5058

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