

Date: 3/1/2019
Product Code 7030USA

SAFETY DATA SHEET

1. Identification

Product Name: Dual Blend (70% Butane/30% Propane)

Product Code: 7030USA

SDS Date: 3/1/2019

Address: BVV

1251 Frontenac Rd. Ste 150

Naperville IL 60563

Phone: (331) 281-0154

CHEMTEL: (800) 255-3924

2. Hazard(s) Identification

GHS Classification

Flammable (Category 1)

Under Pressure

Gases

Pictogram





Signal Word

Danger

Hazard Statement

Contains gas under pressure; may explode if heated

flammable gas

Extremely

Precautionary

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response:

Eliminate all ignition sources if safe to do so.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Storage:

Protect from sunlight.

Store in well-ventilated place.

Hazards Not Otherwise Classified:

Not Available

3. Composition/Information On Ingredients

Name	Cas	Concentration
Butane	106-97-8	70%
Propane	74-98-6	30%

Chemical Substance	Chemical Family	Trade Names
Butane	Hydrocarbons, Aliphatic,	N-BUTANE; LIQUIFIED PETROLEUM GAS; NORMAL
	Saturated	BUTANE; BUTYL HYDRIDE; LPG; UN 1011; C4H10

Propane Hydrocarbons, Aliphatic,
Saturated

N-PROPANE; DIMETHYLMETHANE; PROPYL HYDRIDE; R-290; PROPYLHYDRIDE; LIQUEFIED PETROLEUM GAS; LPG; >96% NATURAL GRADE; >99.9% PURE GRADE; UN 1978; C3H8

4. First-aid Measures

If Inhaled: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If

breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical

attention.

In Case of Skin Contact: If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115°F; 41-46°C). DO

NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get

immediate medical attention.

In Case of Eye Contact: Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get

immediate medical attention.

If a large amount is swallowed, get medical attention.

Note to Physicians: For inhalation consider oxygen.

5. Fire-fighting Measures

Butane

Extinguishing Media: Carbon dioxide, regular dry chemical Large fires: Flood with fine water spray.

Products of Combustion: Carbon monoxide, carbon dioxide, water and toxic and irritating fumes.

Protection of Firefighters: Any self-contained breathing apparatus with a full facepiece.

<u>Propane</u>

Extinguishing Media: Regular dry chemical, high expansion foam Large fires: Flood with fine water spray.

Products of Combustion: Carbon monoxide, carbon dioxide, water and toxic and irritating fumes

Protection of Firefighters: Any self-contained breathing apparatus with a full facepiece.

<u>Isobutane</u>

Extinguishing Media: Carbon dioxide, regular dry chemical Large fires: Flood with fine water spray.

Products of Combustion: Carbon monoxide, carbon dioxide, water and toxic and irritating fumes

Protection of Firefighters: Any self-contained breathing apparatus with a full facepiece.

Butane & Propane

HAZARD	NFPA
Health	1
Fire	4
Reactivity	0

Isobutane:

HAZARD	NFPA
Health	2
Fire	4
Reactivity	0

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Do not touch spilled material.

Environmental Precautions: Avoid heat, flames, sparks and other sources of ignition.

Methods and Materials for Containment and Clean Up:

Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. Stop leak, evacuate area. Use protective equipment. Contact emergency personnel. Avoid ignition sources.

7. Handling and Storage

Safe Handling: tore and handle in accordance with all current regulations and standards. Grounding and bonding

required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.110. Subject to storage regulations: U.S.

OSHA 29 CFR 1910.101.

Safe Storage: Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep

separated from incompatible substances.

8. Exposure Controls/Personal Protection

Name CAS

Butane 106-97-8

N_BUTANE: 800 ppm /1900 mg/m2\ OSHA TWA (vacated by 58 EP 35328, lupe 20, 1902)

N-BUTANE: 800 ppm (1900 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 800 ppm (1900 mg/m3) NIOSH recommended TWA 10 hour(s) LIQUIFIED PETROLEUM GAS (LPG): 1000 ppm (1800 mg/m3) OSHA TWA 1000 ppm (1800 mg/m3) NIOSH recommended TWA 10 hour(s) ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA

Name CAS

Propane 74-98-6

PROPANE: 1000 ppm (1800 mg/m3) OSHA TWA 1000 ppm (1800 mg/m3) NIOSH recommended TWA 10 hour(s) LIQUIFIED PETROLEUM GAS (LPG): 1000 ppm (1800 mg/m3) OSHA TWA 1000 ppm ACGIH TWA 1000 ppm (1800 mg/m3) NIOSH recommended TWA 10 hour(s) ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA

Engineering Control: Handle only in fully enclosed systems.

Eye/Face Protection: For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety

goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench

shower in the immediate work area.

Skin Protection: For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating

clothing.

Respiratory Protection: Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-

pressure mode in combination with a separate escape supply.

9. Physical and Chemical Properties

Appearance:	Butane	Colorless
Odor:	Butane	Faint petroleum-like odor
Odor Threshold:	Butane	6.16 ppm
pH:	Butane	Not Applicable
Melting/Freezing Point:	Butane	-216 F (-138 C)
Initial Boiling Point/Range:	Butane	30°F (-1°C
Flash Point:	Butane	-76 F (-60 C)(CC)
Flash Point: Evaporation Rate:	Butane Butane	-76 F (-60 C)(CC) Not applicable for gas. Liquefied n-butane will evaporate rapidly at room tempperature.
		Not applicable for gas. Liquefied n-butane will evaporate
Evaporation Rate:	Butane	Not applicable for gas. Liquefied n-butane will evaporate rapidly at room tempperature.

Vapor Pressure:	Butane	1557 mmHg @ 20°C
Vapor Density:	Butane	2.1 (Air=1)
Specific Gravity:	Butane	0.5788 @ 0°C
Water Solubility:	Butane	0.15
Partition Coefficient:	Butane	630.96 (log = 2.80) (estimated from water solubility)
Auto Ignition Temp:	Butane	549°F (287°C)
Viscosity:	Butane	Not Available
Molecular Weight:	Butane	58.12
Molecular Formula:	Butane	C-H3-(C-H2)2-C-H3
Density:	Butane	Not Available
Weight per Gallon:	Butane	Not Available
Volatility by Volume:	Butane	100%
Volitility	Butane	Not Applicable
Solvent Solubility:	Butane	Soluble: Alcohol, ether, chloroform
Appearance:	Propane	Clear
Odor:	Propane	Gasoline odor
Odor Threshold:	Propane	5000-20000 ppm
pH:	Propane	Not Applicable
Melting/Freezing Point:	Propane	-310°F (-190°C)
Initial Boiling Point/Range:	Propane	-40°F (-40°C)
Flash Point:	Propane	-157 F (-105 C)
Evaporation Rate:	Propane	Not Applicable
Flammability:	Propane	Not Available
Upper Explosion Limit:	Propane	0.095
Lower Explosion Limit:	Propane	0.021
Vapor Pressure:	Propane	6398 mmHg @ 21.1°C
Specific Gravity:	Propane	
Vapor Density:	Propane	1.55 (Air=1)
Water Solubility:	Propane	Very slightly soluble
Partition Coefficient:	Propane	Not Available
Auto Ignition Temp:	Propane	842°F (450°C)
Volatility by Volume:	Propane	Not Available
Viscosity:	Propane	Not Available
Molecular Weight:	Propane	44.11
Molecular Formula:	Propane	C-H3-C-H2-C-H3
Density:	Propane	0.116
Weight per Gallon:	Propane	Not Available
Volatility by Volume:	Propane	Not Available
Volitility	Propane	Not Applicable
Solvent Solubility:	Propane	Soluble: Absolute alcohol, ether, chloroform, benzene, turpentine

10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressure.

Will not polymerize.

Possibility of Hazardous Reactions:

Conditions to Avoid: Stable at normal temperatures and pressure.

Stable at normal temperatures and pressure.

Incompatible Materials: Oxidizing materials, combustible materials, halogen compounds,

Hazardous Decomposition Products:

Oxides of carbon.

11. Toxicological Information

Name: CAS: Butane 106-97-8

LC(50): 658 mg/l (270,000 ppm) butane (4 hour-rat)

Dermal LD50: Not Established

Skin Corrosion/Irritation: Blisters, frostbite

Serious Eye Damage/Eye Irritation: Frostbite, blurred vision

Respiratory or Skin Sensitization: Central nervous system depression, difficulty breathing

Mutagenicity: Not Established

Carcinogenicity: None

Reproductive: Not Established

Inhalation: Irritation, nausea, vomiting, headache, drowsiness, symptoms of drunkenness,

tingling sensation, suffocation, convulsions, coma, can displace oxygen at high

concentrations

 Name:
 CAS:

 Propane
 74-98-6

LC50 Inhalation Gas. Rat > 800000 ppm 15 minutes

Dermal LD50: Not Available

Skin Corrosion/Irritation: Liquid: Blisters, frostbite

Serious Eye Damage/Eye Irritation:

Liquid: frostbite, blurred vision

Respiratory or Skin Sensitization: Central nervous system depression, difficulty breathing

 Mutagenicity:
 Not Available

 Carcinogenicity:
 Not Available

 Reproductive:
 Not Available

Inhalation: Nausea, vomiting, irregular heartbeat, headache, symptoms of drunkenness,

diorientation, suffocation, convulsions, coma

12. Ecological Information

Name	CAS	Toxicity
Butane	106-97-8	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Expected to exist entirely in the vapor phase in ambient air.
Name	CAS	Toxicity
Propane	74-98-6	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available

13. Disposal Considerations

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

14. Transportation Information		
Proper Shipping Name:	Hydrocarbon gas mixture, compressed, n.o.s.	
Hazard Class	2.1	
Identification Number:	UN1964	
Packing Group:	II	
Label	FLAMMABLE GAS	
Ship:	UN1964 HYDROCARBON GAS MIXTURE, COMPRESSED, N.O.S. CLASS 2.1 PG II	

15. Regulatory Information

Name	CAS
SARA 355.30/355.40	Not regulated.
SARA 370.21	Not regulated.
CERCLA	Not regulated.
SARA 372.65	Not regulated.
PROP 65	Not regulated.
OSHA Process Safety	Not regulated.
Canadian WHMIS Class	A, B1

16. Other Information, Including Date of Preparation or Last Revision

SDS Date:	3/1/2019	

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