

SAFETY DATA SHEET

PRODUCT NAME

BuTank™ Butane Gas Cartridge

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT NAME **BUTANE GAS CARTRIDGE**

B. RECOMMENDED USE OF PRODUCT AND LIMITATIONS

USE OF PRODUCT For use Only in Portable Gas Appliances

LIMITATIONS Extremely flammable

C. SUPPLIER

COMPANY Wall Lenk Corporation

ADDRESS 1950 MLK Jr. Blvd Kinston, NC 28501 USA

EMERGENCY PHONE NUMBER (800) 424-9300 CHEMTREC

2. HAZARDS IDENTIFICATION

A. CLASSIFICATION Flammable gases: Category 1

Gases under pressure: Liquified gas

Specific target organ toxicity - single exposure : Category 3(Anesthesia

effects)

B. LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

SYMBOLS







SIGNAL WORDS DANGER, WARNING

HAZARD STATEMENTS H220 Extremely flammable gas

H280 Contains gas under pressure; May explode if heated

H336 May cause drowsiness or dizziness

PRECAUTIONARY STATEMENTS

PREVENTION P210 Keep away from heat/sparks/open flames/hot surface - No smoking

P251 ressurized container: Do not pierce or burn, even after use

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P271 Use only outdoors or in a well-ventilated area

RESPONSE P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position

P312 Call a POISON CENTER or doctor/physician if you feel unwell P377 Leaking gas fire: Do not extinguish, unless leak can be stopped

P381 Eliminate all ignition sources if safe to do so

STORAGE P403 Store in a well-ventilated place

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P410+P403 Protect from sunlight. Store in a well ventilated place

DISPOSAL P501 Depose of contents/container in accordance with local/regional

/national regulations

C. OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION (NFPA)

	HEALTH	FIRE	REACTIBILITY
ISOBUTANE	0	4	0
BUTANE	1	4	0
PROPANE	1	4	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

A. MIXTURE

CHEMICAL NAME	SYNONYM	CAS No./ID	CONTENT(w%)
ISO-BUTANE	2-METHYL PROPANE	75-28-5	25 ~35
N-BUTANE	Butane, Liquefied Petroleum Gas	106-97-8	55 ~70
PROPANE	n-Propane, Propylhydride	74-98-6	4 ~ 8

4. FIRST AID MEASURES

A. EYE CONTACT Get emergency a medical treatment

Wash skin and eyes with plenty of flowing water over 20 minutes

B. SKIN CONTACT If suffer from frostbite,flush with plenty of lukewarm water immediately.

cover up contaminated skin with a blanket. seek medical attention if ill effect

or irritation develops

C. INHALATION Get medical advice/attention if you feel unwell

Ventilate with fresh air if open exceed mist and fume, get a medical treatment

if have a cough and others

D. INGESTION Prompt medical action is essential.

Use a breathing eqipment if get breathless by ingestion and inhalation

but rapidly excess heating or fire will be caused burst or rupture of a Extremely Flammable. Do not use near fire or flame.

E. MOST IMPORTANT SYMPTOMS/EFFECT,

Contact with skin or eyes can cause frostbite.

F. INDICATION OF IMMEDIATE MEDICAL In case of inhalation, consider supplying oxygen.

ATTENTION AND SPECIAL

TREATMENT

HAZARDS

NEEDED, IF NECESSARY

5. FIRE FIGHTING MEASURES	
A. SUITABLE EXTINGUISH MEDIA	Water spray or Fog for surrounding area. Standard form, Special Alcohol- stable foam, Carbon Dioxide-CO2 , Dry Chemical
	Use dried sand and soil if have extinguishment by smothering
B. SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	May burst or explode if exposed to heat or spark.
	Thermal decomposition may produce carbon monoxide and other toxic vapors
	Heavier than the air, and there is a possibility of ignition and backfire.
	May cause explosion if heat up cylinder.
	Low electrical conduction may cause static electricity, and ignited by spark.
	Mixture of gas & air may explode.
C. SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHER	Fire fighters/rescures must put on apposive protector
	Get fire fighting on safty distance
	May be damaged if skin and eyes contact
	May cause pollution by opened contents
	Warning, becouse contents are lighter than water
	Remove cylinder from danger distance if not be dangerous
D.SPECIAL FIREFIGHTING 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.
E.UNSUAL FIRE AND EXPLISION	At elevated temperatures(over 54°C/130°F) CRV of containers will be

6. ACCIDENTAL RELEASE MEASURE

A. PERSONAL PRECAUTIONS,

PROTECTIVE

Avoid heat, flames, sparks and other sources of ignition.

PROTECTIVE

EQUIPMENT AND EMERGENCY

PROCEDURES

Stop leak if possible without personal risk.

Reduce vapors with water spray.

Do not touch spilled material.

Keep unnecessary people away, isolate hazard area deny entry. Remove

sources of ignition. Ventilate closed spaces before entering.

B. ENVIRONMENTAL PRECAUTIONS

C. METHOD AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Prevent flow to sewer/public waters. stop release

Stop leak if you can do it without risk

Absorb leaked materials with soil and sand, and throw away it to waste

If spill is indoors, remove all possible sources of ignition and ventilate area

immediately until all gases and vapors have been removed

7. HANDLING AND STORAGE

A. PRECAUTIONS FOR SAFE HANDLING

Get handling after read all precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray

Do not spray to flash resource point or flammable

Avoid contact with skin and eyes

Empty containers should not be re-used Protect cylinders from physical damage

Use in a well-ventilated area

B. CONDITIONS FOR SAFE STORAGE Keep away from heat/sparks/open flames/hot surface - No smoking

Store in locking machanism system and not youth handling Store in cool, well-ventilated area away from heat, spark or fire

Keep away from foods and drinks

Protect against direct sun radiation and storage under 40°C

8. EXPOSURE CONTROLS/PESONAL PROTECTION

A. EXPOSURE LIMITS IN THE AIR OF THE WORKPLACE, BIOLOGICAL LIMIT VALUES

Iso-Butane:

OSHA TWA No data

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

Propane:

OSHA TWA 1000ppm(1800mg/m²)

ACGIH TWA 2500ppm

NIOSH recommended TWA 1000ppm(1800mg/m)

N-Butane:

OSHA TWA 800ppm(1900mg/m³)

ACGIH TWA 800ppm

NIOSH recommended TWA 800ppm(1900mg/m³)

EXPOSURE STANDARD Industry safety & health law

B. APPROPRIATE ENGINEERING Provide adequate ventilation

CONTROLS Ventilation equipment should be explosion-resistant if explosive

concentrations of material are present. Ensure compliance with applicable

exposure limits.

C. INDIVIDUAL PROTECTION MEASURE

RESPIRATORY PROTECTION An approved breathing apparatus may be appropriate. in case of emergency

or leak, use a respirator

Eye Protection For the gas: Eye protection not required, but recommended.

For the liquid: Wear splash resistant safety goggles. Contact lences should

not be worn.

Provide an emergency eye wash fountain and quick drench shower in

Body Protection For the gas: Protective clothing is not required.

For the liquid: Wear appropriate protective, cold insulating clothing.

Hand Protection Wear insulated gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES						
PROPERTIES	N-Butane	Iso-Butane	Propane			
A. APPEARANCE FORM	liquid & vapor	liquid & vapor	liquid & vapor			
APPEARANCE COLOR	colorless	colorless	colorless			
B. ODOR	faint odor	faint odor	faint odor			
C. ODOR THRESHOLD	No data	No data	No data			
D. pH	Not applicable	Not applicable	Not applicable			
E. MELTING/FREEZING POINT	-138°C	-160°C	-187°C			
F. INITIAL BOILING POINT AND RANGE	-1°C	-12℃	-42°C			
G. FLASH POINT	-60 °C (c.c.)	-88°C	-104°C			
H. EVAPORATION RATE	No data	No data	No data			
I. FLAMMABILITY(SOLID, GAS)	flammable gas	flammable gas	flammable gas			
J. UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	1.8-8.4 vol%	1.8-8.4 vol%	2.2-9.5 vol%			
K. VAPOR PRESSURE	1557mmHg (at 20°C)	2280mmHg (at 20°C)	5625mmHg (at 20°C)			
L. SOLUBILIY	3.25mL/100mL(at 20°C)	No data	0.007g/100mL (at 20°C)			
M. VAPOR DENSITY	2.10 g/cm3(air=1)	2.59 g/cm3(air=1)	1.55 g/cm3(air=1)			
N. RELATIVE DENSITY	0.578 (20°C/4°C liquid)	0.578 (20°C/4°C liquid)	0.501 (20°C/4°C liquid)			
O. PARTITION COEFFICIENT OF n-OCTANOL/WATER	log Pow 2.89	log Pow 2.80	log Pow 2.36			
P. AUTO-IGNITION TEMPERATURE	287°C	460°C	466°C			
Q. DECOMPOSITION TEMPERATURE	No data	No data	No data			
R. VISCOSITY	No data	No data	No data			
S. EXPLOSIVE PROPERTIES	No data	No data	No data			

10. STABILITY AND REACTIVITY

A. CHEMICAL STABILITY Material is stable under normal conditions.

Ignition by high temperature surface or flame.

B. POSSIBILITY OF HAZARDOUS

REACTIVITY

Stable at a normal temperature and pressure.

If contact with strong oxidizers, ignition or explosion may be caused by violent

reaction.

C. CONDITION TO AVOID Avoid heat, flames, sparks and other sources of ignition. Minimize contact with

material. Containers may rupture or exposed to heat

D. INCOMPATIBLE MAERIALS Strong oxidizers such as hydrogen peroxide, nitric acid, sulphuric acid, etc.

E. HAZARDROUS DECOMPOSITION

PRODUCT

Toxic carbon compounds(CO2,etc)

11. TOXICOLOGICAL INFORMATION

A. INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

Irritation, vomiting, difficulty in breathing, irregular heart beating, headache, INHALATION EXPOSURE

sleepiness,

dizziness, spasm, coma.

INGESTION EXPOSURE May cause ingestion irritation.

SKIN EXPOSURE Frostbite. EYE EXPOSURE Frostbite.

B. DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM

EXPOSURE

ACUTE TOXIC

ORAL LD50(rat):No data LD50(rabbit): No data SKIN

INHALATION LD50(rat):658,000mg/m3,LD50(mouse):680,000mg/m3

No data

SKIN CORROSION/IRRITATION No data SERIOUS EYE DAMAGE/IRRITANT No data RESPIRATORY SENSITIZATION No data SKIN SENSITIZATION No data

CARCINOGENICITY

KOREAN INDUSTRIAL RAW OF

SAFETY AND HEALTH

KOREAN DEPARTMENT OF No data

LABOR

IARC No data **OSHA** No data **ACGIH** No data NTP No data **EU CLP** No data **GERM-CELL MUTAGENICITY** No data GENERATIVE TOXICITY No data SPECIFIC TARGET ORGAN No data TOXICITY - SINGLE EXPOSURE SPECIFIC TARGET ORGAN No data

TOXICITY - REPEATED EXPOSURE

ASPIRATION HAZARD

No data

12. ECOLOGICAL INFORMATION

A. AQUATIC/TERRESTRIAL ECOLOGY TOXICITY

FISH No data **DAPHNIA** No data **ALGAE** No data

B. PERSISTENCE AND DEGRADABILITY

PERSISTENCE Not applicable **DEGRADABILITY** No data

C. BIOACCUMULATIVE POTENTIAL

BIODEGRADATION No data BIOACCUMULATION No data

D. MOVILITY IN SOIL Adsorbs to soil and has low mobility

E. OTHER HAZARDROUS EFFECTS No data

13. DISPOSAL CONSIDERATIONS

A. DISPOSAL METHODS All disposal practices must be in compliance with all law and regulations

Consult local, state, and federal regulations for specific requirements

B. PRECAUTIONS the contents of containers must be disposed according to related regulations

Disposal should be in accordance with applicable regional,national and local

laqs and regulation

14. TRANSPORT INFORMATION

A. UN NUMBER UN2037

-PROPANE:UN1075 -ISO-BUTANE:UN1999 -N-BUTANE:UN1011

B. UN PROPER SHIPPING NAME RECEPTACLES, SMALL, CONTAINING GAS(GAS CARTRIDGES) without a

release device, non-refillable

C. HAZARD CLASS(ES)

D. PACKING GROUP

No data

E. MARINE POLLUTANT SUBSTANCES

Not applicable

F. SPECIAL PRECAUTIONS FOR USER Passenger plane or train: Prohibited

15. REGULATORY INFORMATION

A. REGULATORY INFORMATION This safety datasheet complies with the requirements of Regulation (EC) No.

1907/2006.

B. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION:

1)USA

CERCLA SECTION 103 (40CFR302.4) Not regulated SARA SECTION 302(40CFR355.30) Not regulated SARA SECTION 304(40CFR355.40) Not regulated SARA SECTION 313(40CFR372.65) Not regulated

SARA SECTION 311/312 (40CFR370.21) Acute:Yes Chronic:No Fire:Yes Reactivity:No Sudden Pressure:Yes

OSHA PROCESS Not regulated

SAFETY(29CFR1910.119

2)EU classification and Labelling information CLASSIFICATION F

RISK PHRASES R12:Extremely flammable

SAFTY PHRASES S2:Keep out of the reach of children

S9:Keep container in a well-ventilated place

S16:Keep away from sources of ignition - No smoking

16. OTHER INFORMATION

A. SOURCE OF DATA

ECB-ESIS(European chemical Substances Information System)(http://ecb.jrc.it/esis)

ECOTOX Database, EPA(http://cfpub.epa.gov/ecotox)

HSDB, U.S. National Library of Medicine(http://toxnet.nlm.nih.gov)

IUCLID Chemical Data Sheet, EC-ECB

International Chemical Safety Cards(ICSC)

http://www.nema.go.kr/hazmat/

http://ncis.nier.go.kr

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)

ECB-ESIS(European chemical Substances Information System)(http://ecb.jrc.it/esis)

International Chemical Safety Cards(ICSC)(http://www.nihs.go.jp/ICSC)

TOXNET, U.S. National Library of Medicine(http://toxnet.nlm.nih.gov)

The Chemical Database, The Department of Chemistry at the University of Akron (http://ull.chemistry.uakron.edu/erd)

NLM;HSDB

NLM; ChemIDPlus

TOMES;Loli

TOPKAT; Skin Irritation

Ecological Structure Activity Relationships(ECOSAR)

Korea Occupational Safety & Health Agency

EPI Suite

Quantitative Structure Activity Relation(QSAR)

Globally Harmonized System of classification and labeling of chemical(GHS), United Nations.

B. THE DATE OF PREPARATION OF December. 22. 2012

THE SDS

C. THE NUMBER OF TIMES REVISED AND THE DATE OF PREPARATION OF THE LATEST REVISION

THE NUMBER OF TIMES REVISED No. 3

THE DATE OF PREPARATION OF May. 30. 2022

THE LATEST REVISION

D. OTHERS

The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee for result obtained, and assume no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state and local laws and regulations.

