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#### **UTILITY LIGHTER & REFILL**

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Utility Lighter & Refill

Product Code BZLTR series

Other Names

Product Use Camping and every day use

Company NameBromic GroupAddress1 Suttor Street

Silverwater NSW 2128

**Telephone Number** 02 9748 3900 **Emergency Telephone** 1300 276 642

#### 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

Extremely flammable liquefied gas under pressure. Keep away from heat, sparks, flame, and all other ignition sources. Vapour is heavier than air and travel along the ground to possible distant ignition sources causing an explosive flashback.

Vapour replaces oxygen available for breathing and may cause suffocation in confined spaces. Avoid breathing vapour. Use only with adequate ventilation. Where appropriate, use proper respiratory protection and personal protective equipment. Liquid can cause freeze burn similar to frostbite. Do not get liquid in eyes, on skin, or on clothing. Keep service valve closed when not in use.

#### POTENTIAL HEALTH EFFECTS INFORMATION

May cause cancer. May cause heritable genetic damage.

**Inhalation:** Asphyxiation. Causes disorientation, lack of coordination, rapid perspiration,

headache and nausea at high concentrations. Continued exposure may result in

unconsciousness, coma and possible death.

Ingestion: Ingestion is not expected to occur in normal use. Liquid can cause freeze burn

similar to frostbite.

Eve Contact: Contact with liquid can cause freezing of tissue.

Skin Contact: Contact with liquid can cause frostbite.

#### HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

**Hazards** F+ - Extremely flammable

T - Toxic

Risk Phrases R12 - Extremely flammable

R45 - May cause cancer.

R46 - May cause heritable genetic damage.

Safety Phrases S2 - Keep out of reach of children

S9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.

S45 - In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

S53 - Avoid exposure-obtain special instructions before use.





78%

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** Mixture

**CAS Number Proportion** Ingredient (common name)

Isobutane (containing >=0.1% butadiene

68514-37-4)

Butane 106-97-8 22%

# 4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Seek immediate

medical attention.

Ingestion Never give anything by mouth to an unconscious person. Seek

75-28-5

immediate medical attention.

Skin In case of skin contact, immediately remove contaminated clothing

> and wash affected areas with water and soap. If frostbite occurs, immerse involved area in lukewarm water (20-30°C). Keep immersed for 20-40 minutes. Seek immediate medical attention. In case of eye contact, immediately flush eyes with plenty of

lukewarm water (20-30°C) for at least 15 minutes. Seek immediate

medical attention.

#### 5. FIRE FIGHTING MEASURES

For major fires call the Fire Brigade. Ensure that an escape path is

available from any fire.

Suitable Extinguishing

Media

**Eves** 

**Hazardous Combustion** 

**Products** 

**Special Protective** 

**Actions for Firefighters** 

Water spray, dry chemical or carbon dioxide.

Do not attempt to extinguish fire until gas flow is shut off.

Inefficient burning may produce carbon monoxide.

Evacuate all unnecessary personnel from the area. Allow only properly trained and protected emergency response personnel in area. Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

Shut off leaks, if possible and without personal risks. If gas flow cannot be shut off, do not attempt to extinguish fire. Allow fire to

burn out.

Use high volume water supply to cool exposed pressure containers and nearby equipment. Approach a flame-enveloped container from the sides, never from the ends. Use extreme caution when applying water to a container that has been exposed to heat or flame for more than a short time. For uncontrollable fires and/or when flame is impinging on container, withdraw all personnel and

evacuate vicinity immediately.

Unusual Fire or **Explosion Hazards**  Butane is heavier than air and travel along the ground to possible

distant ignition sources causing an explosive flashback.

Pressure in a container can build up due to heat. Container may rupture suddenly and violently without warning if pressure relief devices fail to function properly. If flames are 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.

**Hazchem Code** 2YE

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Stay upwind and keep out of low areas. Do not breathe fumes and vapour. Ventilate contaminated area thoroughly. Remove all sources of ignition. Use a spark-proof tool. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all

equipment. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays.

Avoid contact with spilled or released material. Immediately remove all contaminated clothing.

Environmental
Precautions
Methods and Materials

In the event of a major spill, prevent spillage from entering drains or  $\dot{}$ 

water courses.

Methods and Materials for Containment and Cleaning Up

Shut off leaks, if possible and without personal risks. Allow product

to evaporate.

#### 7. HANDLING AND STORAGE

# Precautions for Safe Handling

Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Use only with adequate ventilation.

Prevent exposure to ignition sources. Use non-sparking tools and explosion-proof equipment. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Material can accumulate static charges which may cause an electrical spark.

Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not drop or abuse cylinders. Never strike an arc on a gas container or make a container part of an electrical circuit.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

# Conditions for Safe Storage

Store in a tightly closed original container in a cool, dry, and well ventilated area. Do not expose to temperatures exceeding 50°C. Isolate from combustible materials.

Keep cylinders in an upright position at all times. Keep container valve closed and plugged or capped when not in use. Install protective caps when cylinders are not connected for use.

Protect from heat, sparks, flame and other sources of ignition. Keep away from contact with oxidizing and other incompatible materials.





# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters - Butane:

Exposure Standards TWA: 800 ppm / 1900 mg/m<sup>3</sup> (Safe Work Australia) STEL: - ppm / - mg/m<sup>3</sup>

Engineering Controls Adequate explosion-proof ventilation to control airborne

concentrations below the exposure guidelines/limits.

Personal Protective Equipment (PPE)

**Respiratory Protection** If engineering controls do not maintain airborne concentrations

to a level which is adequate to protect worker health, use a Safe

Work Australia approved self-contained breathing apparatus.

See Australian Standards AS/NZS 1715 and 1716 for more

information.

**Eye/Face Protection** Safety glasses with top and side shields or goggles. See Australian

Standards AS 1336 and AS/NZS 1337 for more information.

**Skin Protection** Wear gloves and protective clothing that are impervious to the

product for the duration of the anticipated exposure. Safety shoes

are recommended when handling cylinders. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more

information.

Thermal Hazards No information available.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless, liquified compressed gas

Odour No odour

Odour Threshold

pH

No information available

No information available

No information available

No information available

Initial Boiling Point / Range -24°C Flash Point <-83°C

Evaporation Rate Not applicable

**Flammability** Extremely flammable

Lower Flammability or Explosive 1.8%

Limit

**Upper Flammability or Explosive** 8.4%

Limit

Vapour Pressure ~40 psig Vapour Density >1 Relative Density (Specific Gravity) 0.5676

Solubility in Water <0.1% by weight @ 21°C

Partition coefficient: n-octanol/waterNo information availableAuto-ignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

Percent Volatile by Weight 100%





## 10. STABILITY AND REACTIVITY

Chemical Stability Stable at ambient temperature and under normal conditions of

use

Hazardous Polymerization Will not occur.

**Conditions to Avoid** Strong heat and sources of ignition.

**Incompatible Materials** Strong oxidising agents. **Hazardous Decomposition** No information available.

**Products** 

## 11. TOXICOLOGICAL INFORMATION

**Acute Health Effects** 

**Skin Corrosion/Irritation** Contact with liquid can cause frostbite

Serious Eye Damage/Irritation

Sensitization
No information available.

**Mutagenicity** May cause heritable genetic damage.

Isobutane (containing >=0.1% butadiene) is classified by Safe

Work Australia as Mutagen Category 2.

Contact with liquid can cause freezing of tissue.

**Carcinogenicity** May cause cancer.

Isobutane (containing >=0.1% butadiene) is classified by Safe

Work Australia as Carcinogen Category 1.

1,3-Butadiene is classified by IARC as a Group 1 - Recognized

carcinogen.

Reproductive Toxicity STOT-Single Exposure

STOT-Repeated

**Exposure** 

Aspiration Hazard Routes of Exposure

No information available.

No information available.

No information available.

No information available.

Inhalation This product is an asphyxiant. Causes disorientation,

lack of coordination, rapid perspiration, headache and

nausea at high concentrations. Continued exposure may result in unconsciousness, coma and possible

death.

Ingestion is not expected to occur in normal use.

Ingestion: However, liquid can cause freeze burn similar to

frostbite.

Eye: Contact with liquid can cause freezing of tissue.

Skin: Contact with liquid can cause frostbite.

Chronic Health Effects

Existing Conditions

Existing Conditions
Aggravated by Exposure

None.

Respiratory disorders (asthma).

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity Bioaccumulation, Persistence and** 

No information available. No information available.

Degradibility





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## 13. DISPOSAL CONSIDERATIONS

Disposal methods and

containers

Do not attempt to dispose of residual or unused product in the

container. Return it to your supplier.

Dispose according to applicable local and state government

regulations.

Special precautions for

Please consult your state Land Waste Management Authority for

landfill or incineration more information.

#### 14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of

Dangerous goods by road or rail.

UN Number 1011
Proper Shipping Name BUTANE
Dangerous Goods Class 2.1

Subsidiary Risk Not applicable

Hazchem Code 2YE

Packing Group Not applicable

Special ProvisionsAU 03Limited Quantities0Packagings & IBCs - Packing InstructionP200

Packagings & IBCs - Special Packing Not applicable

**Provisions** 

Portable Tanks & Bulk Containers – T50

Instructions

Portable Tanks & Bulk Containers - Spe Not applicable

**Provisions** 

SEA TRANSPORT - IMDG

UN Number 1011
Proper Shipping Name BUTANE
Dangerous Goods Class 2.1

Packing Group Not applicable

Marine Polutant No

AIR TRANSPORT - ICAO / IATA

UN Number 1011
Proper Shipping Name BUTANE
Dangerous Goods Class 2.1

Packing Group Not applicable

## 15. REGULATORY INFORMATION

Butane and isobutane are listed in the Australian Inventory of Chemical Substances (AICS).

#### 16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (14/02/2012)

Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au





**Abbreviations Used** IARC: International Agency for Research on Cancer

ASCC: National Occupational Health and Safety Commission

NTP: National Toxicology Program (U.S.)

OSHA: Occupational Safety and Health Administration (U.S.)

STEL: Short term exposure limit TWA: Time weighted average

#### **Emergency Contacts**

Bromic Group 02 9748 3900
Bromic Group – Emergency Number 1300 276 642
Police and Fire Brigade 000
Poisons Information Centre 13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]