

**Section 1. Identification of the material and the supplier**

Product: **Butane Propane Mix Cylinder**  
 Product Code: 1811610 & 1811610-1  
 Product Use: Soldering & heating  
 Restriction of Use: Refer to Section 15

Australian Supplier: **Bromic Pty Ltd (ABN 88 001 648 979)**  
**10 Phiney Place**  
**Ingleburn, NSW, 2565, Australia**

Telephone: 1300 276 642

**Emergency Telephone: +61 2 9426 5224 (24/7)**  
**13 11 26 (National Poison Centre)**

Date of SDS Preparation: 31 January 2023 v2

**Section 2. Hazards Identification**

**Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia**

**Pictograms**



Signal Word: **DANGER**

GHS Category and Classification	Hazard Code	Hazard Statement
Flammable gas Cat. 1A	H220	Extremely flammable gas.
	H280	Contains gas under pressure, may explode if heated.

Prevention Code	Prevention Statement
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response Code	Response Statement
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	In case of leakage, eliminate all ignition sources.

Storage Code	Storage Statement
P403	Store in a well-ventilated place.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Butane < 0.1% Butadiene	50-60	106-97-8
Propane	40-50	74-98-6

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Seek immediate medical attention.
If on 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.
If Swallowed	Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

#### Most important symptoms and effects, both acute and delayed

Symptoms: None known.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Flammable Compressed Gas
<b>Hazards from combustion products</b>	Gases detrimental to health (carbon monoxide and carbon dioxide) can be spread in case of fire. The gas forms an explosive mixture with air. In case of fire, high pressure may build up causing the packaging to explode.
<b>Suitable Extinguishing media</b>	Extinguish with powder, carbon dioxide or foam. Should not be extinguished with water.
<b>Precautions for firefighters and special protective clothing</b>	In case of fire use a respirator mask. Vapors are heavier than air and may spread along floors.
<b>HAZCHEM CODE</b>	<b>2T</b>

### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8 Area should be evacuated and gases removed with ventilation. Note, risk of ignition and explosion. Do not inhale the gas. Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind. Note, risk for formation of sparks due to static electricity. Do not remove clothing in a room where spillage has occurred.

Notify rescue services for larger spillage.

Prevent from entering sewers, basements and pits, or any place where gas accumulation could be dangerous.

Let the gas from the leaking gas cylinders evaporate outdoors.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Keep away from heat & hot surfaces. No smoking.
- Do not inhale fumes and avoid contact with skin and eyes.
- Handle in premises with good ventilation.
- Do not eat, drink or smoke in premises where this product is handled.
- Open fires, hot objects, spark formation, or other sources of ignition, are not allowed in the premises where this product is handled.
- Prevent build-up of static electricity by utilising a semi-conducting floor and shoe soles and keep humidity above 50%.
- An evacuation plan should be available and evacuation routes must not be blocked.

### Precautions for Storage:

- The product should be stored in a manner which prevents hazards to health and the environment.
- Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
- Contact with the liquid product can cause injuries from hypothermia.
- Store in a dry place not above normal room temperature.
- Store in a well-ventilated space.
- Store tightly, in original packaging.
- Do not store in direct sunlight.
- Store away from oxidisers.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Butane [106-97-8]	800	1,900	-	-
Propane [74-98-6]	Simple asphyxiant – may present an explosion hazard			

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace exposure standards for airborne contaminants (2019) under Safe Work Australia

### Engineering Controls

Handle in premises with good ventilation.

### Personal Protection Equipment



<b>Eyes</b>	Eye protection should be worn if there is any danger of direct exposure or splashing.
<b>Hands and Skin</b>	Release of gas can cause strong cold. Gloves protecting against cold, labelled with the "cold hazard" pictogram, is recommended.
<b>Respiratory</b>	Use proper protective breathing equipment in case of insufficient ventilation.

Gas filter AX is recommended.
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## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Colourless, liquefied gas mixture
<b>Odour</b>	Distinctive and unpleasant if odorized, otherwise odorless
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Boiling Point</b>	-42°C
<b>Melting Point</b>	-188°C
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	-40°C
<b>Flammability</b>	Flammable
<b>Upper and Lower Explosive Limits</b>	2% - 11%
<b>Vapour Pressure</b>	430 kPa (15°C)
<b>Vapour Density</b>	1.5 (15 °C, air = 1)
<b>Relative Density</b>	0.5 kg/L
<b>Solubility in water</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	450 °C
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable at ambient temperature and under normal conditions of use.
<b>Conditions to Avoid</b>	Avoid heat, sparks and open flames.
<b>Incompatible Materials</b>	Avoid contact with oxidizers.
<b>Hazardous Decomposition Products</b>	None under normal conditions.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable. PROPANE LC50 rat 4h: 658 mg/L Inhalation
<b>Eye</b>	Contact with liquid can cause frostbite.
<b>Skin</b>	Contact with liquid can cause frostbite.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	At high concentrations there is an anaesthetic or narcotic effect. Prolonged inhalation can cause loss of consciousness and/or death.

## Section 12. Ecotoxicological Information

In the quantities with which this product is used, effects on the environment are negligible. Note however, that the local environment may be affected, and all discharge to the natural environment may impact ecosystems.

<b>Persistence and degradability</b>	The product degrades easily in the natural environment.
<b>Bioaccumulation</b>	Neither this product, nor its contents, accumulates in nature.
<b>Mobility in Soil</b>	No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.
<b>Other adverse effects</b>	No data available

PROPANE

LC50 Freshwater water flea (*Daphnia magna*) 48h: 16.3 mg/L

LC50 Fish 96h: 16.1 mg/L IC50 Algae 72h: 11.3 mg/L

## Section 13. Disposal Considerations

**Disposal Method:** Do not attempt to dispose of residual or unused product in the container. Return it to your supplier.

**Precautions:** None known.

**Disposal methods to avoid:** Do not pierce or burn.

## Section 14 Transport Information

**This product is classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).**



### Road, Rail, Sea and Air Transport

<b>UN No</b>	2037
<b>Class - Primary</b>	2.1
<b>Packing Group</b>	Non Allocated
<b>Proper Shipping Name</b>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
<b>Marine Pollutant</b>	No

## Section 15 Regulatory Information

This substance is classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

## Section 16 Other Information

### Glossary

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority

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SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
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HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

Disclaimer

This document has been prepared by a third party and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to a third party or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While the third party have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, the third party accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Australian Manufacturer or distributor, if further information is required.

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