SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Sievert Powergas Butane Propane Mix Cylinder (UFI: XUAP-5MJG-600P-UQQA)**
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
Tel:	1300 276 642
Australian Emergency No	**13 11 26 (National Poison Centre)**
New Zealand Supplier:	**Bromic Pty Ltd**
Address:	259 James Fletcher Drive Otahuhu Auckland, 2024
Telephone:	0508 276 642
Emergency No:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	24 January 2025

Section 2. Hazards Identification

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

New Zealand:
This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Compressed Gases (Flammable) – HSR002532

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 carefully and follow all instructions.

P202	Do not handle until all safety precautions have been read and understood.
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.
P410 + P403	Protect from sunlight. 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

Hazard Type	Flammable Compressed Gas
Hazards from combustion products	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.
Suitable Extinguishing media	Extinguish with powder, carbon dioxide or foam. Should not be extinguished with water.

Precautions for firefighters and special protective clothing	In case of fire use a respirator mask. Vapors are heavier than air and may spread along floors.
HAZCHEM CODE	**2T**

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 carefully and follow all instructions.
- 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 oxidisiers.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA		STEL	
Substance	**ppm**	**mg/m³**	**ppm**	**mg/m³**
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.

Engineering Controls
Handle in premises with good ventilation.

Personal Protection Equipment

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

Section 9 Physical and Chemical Properties

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

Section 10. Stability and Reactivity

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

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.

	PROPANE LC50 rat 4h: 658 mg/L Inhalation
Eye	Contact with liquid can cause frostbite.
Skin	Contact with liquid can cause frostbite.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	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.

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

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Road, Rail, Sea and Air Transport

UN No	2037
Class - Primary	2.1
Packing Group	None Allocated

Proper Shipping Name	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
Marine Pollutant	No

Section 15 Regulatory Information

Australia:
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).

New Zealand:
This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: **Compressed Gases (Flammable) – HSR002532**

Section 16 Other Information

Glossary

Cat	Category
EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	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

The information herein is given in good faith, but no warranty, express or implied is made.

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