

1. IDENTIFICATION OF SUBSTANCE & COMPANY

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval **HSR002532**, Gases Under Pressure Mixtures (Flammable) Group Standard 2020).

Product

Product Name	Butane Gas Refill (SKU: 215399)
HSNO Approval	HSR002532
Approval Description	Gases Under Pressure Mixtures (Flammable) Group Standard 2020.
Intended Use	Butane Gas Cartridge
UN Number	2037
DG Class	2.1

Supplier Details

Company	Shoof International Ltd	
Address	224 Laurent Road, Cambridge 3493 New Zealand	1 International Square Tullamarine, VIC 3043 Australia
Telephone	+64 7 827 3902 (NZ)	+61 3 9907 3000 (AU)
Website	www.shoof.co.nz	www.shoof.com.au
Emergency Contact (NZ)	0800 POISON (0800 764 766)	
Emergency Contact (AU)	13 11 26	

2. HAZARD IDENTIFICATION

The substance has been classified as hazardous according to the criteria in the Hazardous substance (Minimum Degrees of Hazard) Notice 2017.

GHS Classification



GHS02

Hazard Classes

Flammable Gas – Category 1A
Gases Under Pressure – Liquefied Gas

Hazard Statements

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

Precautionary Statements

Signal word	DANGER	
Precautionary Statements	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.

	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381	In case of leakage, eliminate all ignition sources.
Storage	P410+P403	Protect from sunlight. Store in a well-ventilated place.
Disposal	P501	Dispose of contents/container in accordance with local/regional/national and international regulations.

Other hazards:

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with non-hazardous additions.

Substance name	EINECS	REACH- Reg.-No.	GHS7	CAS- No.	Concentration (%)
Butane, pure	203-448-7	01-2119474691-32-XXXX	Flam. Gas 1A, H220; H280	106-97-8	25-50%
Propene	204-062-1	01-2119447103-50-XXXX	Flam. Gas 1A, H220; H280	115-07-1	25-50%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. FIRST AID

4.1 General Information

If medical advice is needed, have product container or label at hand. Call the National Poisons Centre or your doctor if you feel that you may have been harmed or irritated by the product.

First aid measures only required by release of ingredients or generation of decomposition products. Medical treatment necessary. Remove contaminated clothing immediately.

4.2 Description of First Aid Measures

After Inhalation: The gas is considered to be an asphyxiant. Remove from the area of exposure immediately.
Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Generally, the product does not irritate the skin.

After Eye Contact: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After Swallowing: If symptoms persist, consult doctor.

Advice to Doctor: Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: CO², powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons: Water with full jet

5.2 Special hazards arising from the substances or mixture

No further relevant information available.

5.3 Advice for Firefighters

Protective equipment: Wear a self-contained breathing apparatus and non-flammable overalls, gloves, hat and eye protection.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods for cleaning up

Ensure adequate ventilation.

6.4 Reference to other sections:

See sections **7** for safe handling, section **8** for information on PPE and section **13** for disposal information.

7. STORAGE HANDLING

Precaution for safe handling

Keep away from heat and direct sunlight.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Conditions for safe storage including incompatibilities

Keep container tightly sealed.

Keep away from children.

Store removed from oxidisers.

Storage

Store at room temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

8.1 Exposure Control Limits

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ/AU Workplace Exposure Std	Ingredient	WES-TWA	WES-STEL
	Propane	Simple asphyxiant	Data unavailable
	Butane	800ppm 1900mg/m ³	Data unavailable

8.2 Exposure Controls

Personal Protective Equipment

Respiratory Protection:

- Use suitable respiratory protective device in case of insufficient ventilation.

Hand Protection

- The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Eye Protection

- To protect eyes, it is recommended that goggles/safety glasses are worn.
- Avoid wearing contact lenses.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

GENERAL INFORMATION	
Physical state	Gaseous
Form	Compressed liquefied gas
Colour	Colourless
Odour	Characteristic
Boiling point or initial boiling range	No data
Flammability	No data
Lower and Upper explosion limit	
Lower	0.6 Vol %
Upper	12 Vol %
Flash point	-70°C
Auto-ignition temperature	455°C
Decomposition temperature	No data
pH	No data
Solubility	
Water	Partly miscible
Vapour Pressure art 20°C	10.5 hPa
Density at 20°C	0.56 g/cm ³

9.2 Other Information

Important information on protection of health and environment, and on safety.

- Ignition temperature – Product is not self-igniting.
- Explosive properties – Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

9.3 Physical Hazard Classes

Explosive	Void
Flammable Gases	Extremely flammable gas
Aerosols	Void
Oxidising gases	Void

Gases under pressure	Contains gas under pressure; may explode if heated.
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

10. STABILITY & REACTIVITY

Reactivity

- No further relevant information available.

Chemical stability

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

Possibility of hazardous reactions

- No dangerous reactions known.

Conditions to avoid

- Avoid temperatures above 50°C

Incompatible materials

- Strong acids
- Alkali metals

Hazardous decomposition products:

- Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

IF INHALED: Gas is simple asphyxiant. It may cause difficulty breathing. It may cause coughing (respiratory irritation). Breathing in large amount may cause central nervous system depression.

Acute toxicity – Based on available data, the classification criteria are not met.

Skin corrosion/irritation – Based on available data, the classification criteria are not met.

Serious eye damage/irritation – Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation – Based on available data, the classification criteria are not met.

Germ cell mutagenicity – Based on available data, the classification criteria are not met.

Carcinogenicity – Based on available data, the classification criteria are not met.

Reproductive toxicity – Based on available data, the classification criteria are not met.

STOT-single exposure – Based on available data, the classification criteria are not met.

STOT-repeated exposure – Based on available data, the classification criteria are not met.

Aspiration hazard – Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties – None of the ingredients is listed.

12. ECOLOGICAL DATA

12.1 Toxicity

Aquatic toxicity – No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT – Not applicable.

vPvB – Not applicable.

12.6 Endocrine Disrupting Properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects (Additional ecological information)

General Notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

13. DISPOSAL CONSIDERATIONS

There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.

13.1 Waste Treatment Methods

Disposal Method:

Disposal of this product must comply with the Hazardous Substance (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment. Do not deposit in a landfill or sewage facility. Do not detonate to dispose of this substance.

Contaminated Packaging:


Disposal of contaminated packaging must comply with the Hazardous Substance (Disposal) Notice 2017 clause 12. Ensure that the packaging is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the packaging.

14. TRANSPORT INFORMATION

Land Transport Rule: Dangerous Goods 2005 – NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substance on Land) – Considered a dangerous good for transport.

14.1	UN number or ID number IMDG IATA	UN2037
14.2	UN proper shipping name IMDG, IATA	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

14.3	Transport hazard class(es) IMDG, IATA	
	Class Label	2 Gases 2.1
14.4	Packing group IMDG, IATA	Not applicable
14.5	Environmental hazards Marine pollutant	No
14.6	Special precautions for user	Warning: Gases
14.7	Maritime transport in bulk according to IMO instruments	Not applicable
Transport/additional information		
UN "Model Regulation"		UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1

15. REGULATORY INFORMATION

In **New Zealand**, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and local Council Rules and Regional Council Plans.

In **Australia**, this product is classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) and subject to regulation under the Explosives Act and relevant State/Territory Dangerous Goods Legislation.

Workplace use must comply with Safe Work Australia's Model Work Health and Safety (WHS) Regulations and any applicable State/Territory WHS law.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society).

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Review

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Disclaimer

This SDS is prepared by Shoof International and is based on our current state of knowledge, including information obtained from the supplier. The SDS is given in good faith and constitutes a guideline (not guarantee of Safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) **AND HOW THE SUBSTANCE IS USED**. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSN0 and GHS classification for this SDS has been estimated based on general information from the supplier (such as hazard, toxicological).