

Identification of Substance & Company

Product

Product name Butane Gas Refill Express 110ml.

Product code 215399 HSNO approval HSR002532

Approval description Compressed Gas Mixtures (Flammable) Group Standard 2017

UN number 203

Proper Shipping Name RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

DG class 2.1
Packaging group NA
Hazchem code NA

Uses Butane Gas Cartridge

Company Details

Company Shoof International Ltd

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 Website
 www.shoof.co.nz
 www.shoof.com.au

NZ Emergency Telephone Number: 0800 POISON (0800 764 766)
Poisons Information Centre – Australia: 13 11 26

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002532, Compressed Gas Mixtures (Flammable) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes Hazard Statements

2.1.1A H220 - Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

SYMBOLS

DANGER



GHS Classification

Classes Hazard Statements

Flammable Gas, cat 1 H220 - Extremely flammable gas.

Press. Gas (comp) H280 Contains gas under pressure; may explode if heated.

Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P210 - Keep away from ignition sources. No smoking.

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 - Eliminate all ignition sources if safe to do so.

P403 - Store in a well-ventilated place.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

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Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Hydrocarbons, C3-4-rich, petroleum distillate (containing < 0,1 % butadiene)	68512-91-4	50-100%
Propene	115-07-1	10-25%

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

First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

facilities

Ready access to running water is required. Accessible eyewash is required.

Exposure

Swallowed The product is not considered acutely toxic. Ingestion is unlikely due to product form

(gaseous). In case of persistent symptoms, seek medical advice

Eye contact If product gets in eyes, this may result in a cold burn. Immediately flush eyes with tepid

water or sterile saline solution. Holding eyelids apart, continue to wash for 15 mins.

Seek medical advice.

Skin contact This product is non-irritating to skin. However, contact may result in a cold burn.

> Remove contaminated clothing and gently flush affected areas with tepid or cold water for 15 minutes. Apply sterile dressing and treat as for a thermal burn. For large burns, immerse in cold water for 15 minutes. DO NOT apply any form of direct heat. Seek

immediate medical attention.

Inhaled The gas is considered to be an asphyxiant. Remove from area of exposure immediately.

If assisting a victim avoid becoming a casualty. Be aware of possible explosive atmospheres. If victim is not breathing apply artificial respiration and seek urgent medical attention. Give oxygen if available. Keep warm and rested. If patient is unconscious, place in the recovery position (on the side) for transport and contact a

doctor.

Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards: Gas may form an explosive mixture in air which can be ignited by many sources such as

Carbon dioxide, extinguishing powder, foam, fog sprays.

pilot lights, open flames, electrical motors, switches and static electricity.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances: Products of combustion:

Unknown.

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: NA

Accidental Release Measures

Containment If greater than >200 kg is stored emergency plans to manage any potential gas leak must

Pressurised liquid leaks will immediately vaporise at normal air pressures. Avoid **Emergency procedures**

breathing gas. Avoid contact of the liquid with skin and eyes. Clear area of all unprotected personnel. Extinguish or remove all sources of ignition. Switch off power supplies. Shut off leak if safe to do so. Contact emergency authorities and advise of

nature of hazard.

Clean-up method Increase ventilation.

Disposal Dispose of empty fuel cells in accordance with local waste management regulations.

(See section 13).

Precautions Wear appropriate PPE (see section 8).

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7. Storage & Handling

Storage Do not store near sources of ignition or incompatible materials. Store below 45°C in a

secure area. Also store removed from oxidizers.

Keep away from children.

This substance must be stored locked up if >100kg is stored.

Handling Before use carefully read the product label and instruction for use. Keep exposure to a

minimum, and minimise the quantities kept in work areas. See section 8 with regard to

personal protective equipment requirements.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

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 WorkplaceIngredientWES-TWA*WES-STEL*Exposure StdsPropaneSimple asphyxiantdata unavailablePropeneSimple asphyxiantdata unavailableButane800ppm 1900mg/m³*data unavailable

AustralianIngredientES-TWA*ES-STEL*Exposure StdsPropaneSimple asphyxiantdata unavailablePropeneSimple asphyxiantdata unavailableButane800ppm 1900mg/m³*data unavailable

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

EyesTo protect eyes, it is recommended that goggles, safety glasses or full face mask be

worn. Avoid wearing contact lenses.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves, e.g. PVA gloves.

RespiratoryA respirator with an organic vapour cartridge when airborne concentrations approach the

WES (section 8) should be used. If using a respirator, ensure that the cartridges are

correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance Compressed liquified gas

Odour characteristic pH no data
Vapour pressure 10.5hPa
Vapour Density No data
Boiling point No data
Volatile materials 100%

Freezing / melting point

Evaporation rate

Solubility

Specific gravity / density

Flash point

-138.3°C (butane)
2.05 butane)
Partly miscible
0.56 (20°C)
-70°C

Danger of explosion canister may explode

Auto-ignition temperature 455°C

Upper & lower flammable limits LEL: 0.6vol%, UEL 12 vol %

Corrosiveness non corrosive

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Stability & Reactivity

Stability This product is unlikely to react or decompose under normal storage conditions. This

product will not undergo polymerisation reactions.

Conditions to be avoided Incompatible groups Substance Specific Incompatibility

Oxidizing agents, halogens and acids. Thermal decomposition products include carbon oxides, water and carbon.

Flammable substance. Keep away from heat and sources of ignition at all times.

Hazardous decomposition

products

Thermal decomposition may result in toxic and/or irritating fumes, smoke and gases

including carbon dioxide and carbon monoxide.

Hazardous reactions This product is unlikely to react or decompose under normal storage conditions. This

product will not undergo polymerisation reactions.

Toxicological Information

Summary

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

Supporting Data

Acute Oral No evidence of oral toxicity.

Dermal No evidence of dermal toxicity.

Inhaled Inhalation may cause asphyxiation in high concentrations. Low toxicity - LC₅₀ > 5 mg/L

(rat). Butane is a simple asphyxiant gas.

Butane is not considered an eye irritant. However exposure to expanding gas may cause Eye

Skin Butane is not considered a skin irritant. However exposure to expanding gas may cause

frostbite.

Sensitisation Chronic No evidence of sensitisation.

Mutagenicity Butane is not considered a mutagen. Carcinogenicity Butane is not is considered a carcinogen. Reproductive / Butane is not considered a reproductive toxicant.

Developmental

Systemic Butane is not considered a systemic toxicant. None known.

Aggravation of

existing conditions

12. **Ecological Data**

Summary

This gas is not considered ecotoxic.

Supporting Data

Aquatic Butane, Isobutane and propane are not considered ecotoxic towards aquatic organisms. **Bioaccumulation** This product is a gas and will not accumulate in the soil or water or cause long term

problems.

Degradability Volatilization is expected to be primary fate process.

Soil This product is a gas and is not considered to be harmful in the soil environment. **Terrestrial vertebrate** The mixture is not considered to be harmful towards terrestrial vertebrates.

Terrestrial invertebrate Butane is not considered toxic towards terrestrial invertebrates.

Biocidal Not biocidal

13. **Disposal Considerations**

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the Hazardous Substances (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.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package 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 package. The

canisters cannot be recycled. Send to landfill or similar.

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Transport Information

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

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

transport.

UN number: 2037 Proper shipping name: RECEPTACLES, SMALL, CONTAINING

GAS (GAS CARTRIDGES)

2.1 Class(es)

NA Packing group: **Precautions:** Flammable gas Hazchem code: NA

Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002532, Compressed Gas Mixtures (Flammable) Group Standard 2017.

All Ingredients appear on the NZIoC.

Specific Controls

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

All hazardous substances should be appropriately packaged including substances Packaging

that have been decanted, transferred or manufactured for own use or have been

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency response plan Required if > 300kg is stored.

Certified handler Not required. Tracking Not required. Bunding & secondary containment Not required.

Required if > 250kg is stored. Location compliance certificate Required if > 100kg is stored.

Flammable zone Must be established if >100kg is stored in any one location.

Fire extinguisher If > 50kg present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

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 the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

Australia

Standard for the Uniform Not scheduled

Scheduling of Drugs and Poisons (SUSDP)

Applicable prohibitions and Not listed

notifications/licensing

requirements

Agricultural and Veterinary Not listed

Chemicals Act

Listing in the Australian Inventory

of Chemical Substances (AICS)

Additional information **GHS Hazardous Chemical** Listed

Not applicable Not listed

Information List



16. Other Information

Abbreviations

Approval Code Approval HSR002532, Compressed Gas Mixtures (Flammable) Group Standard 2017

Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

EC₅₀ Ecotoxic Concentration 50% − concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Agency

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer
LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

NZIoC New Zealand Inventory of Chemicals

PES Prescribed Exposure Standard means a WES or a biological exposure standard that is

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UEL Upper Explosive Limit
UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site – www.worksafe.govt.nz.

Other References: EU ECHA, ingredients SDS's, ChemIDplus, Suppliers SDS

Review

DateReason for reviewSeptember 2020Not applicable – new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a 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 HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

