

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name:** Cartouches Gas Sécurisée

· **Article number:** 8191

· **Reference Safety data sheet Ref.** 8191 - EN - FDS n°013b

· **CAS Number:**

68476-86-8

· **EC number:**

270-705-8

· **Index number:**

649-203-00-1

· **Registration number** 02-2119651279-31-XXXX

· **UFI:** A310-E0F8-9006-SDU4

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

· **Application of the substance / the mixture**

Refill for devices operating at the vapor pressure of LPG. Fuel use for domestic, industrial and agricultural.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

GUILBERT EXPRESS

33, Avenue du Maréchal de Lattre de Tassigny

94127 FONTENAY SOUS BOIS Cedex

www.express-fds.fr

· **Further information obtainable from:** info@express.fr

· **1.4 Emergency telephone number:**

+33/825 800 251

ENGLAND

National Poisons Information Service :

- In England and Wales: NHS Direct - 0845 4647 ;

- In Scotland: NHS 24 - 08454 24 24 24

IRELAND

National Poisons Information Centre, 01 8092566 or 01 8379964.

+33/825800251

Master Distributor

Aspen Pumps Asia Pacific Pty Ltd

8 Waddikee Road, Lonsdale SA 5160

+61 8 8186 4666

Chemtrec Int'l 1-703-741-5500

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Gas 1A H220 Extremely flammable gas.

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

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.01.2021

Version number 5

Revision and application 11.01.2021

Trade name: Cartouches Gas Sécurisée

(Contd. of page 1)

- **Signal word** *Danger*
- **Hazard statements**
 - H220 Extremely flammable gas.
 - 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 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.
 - P410+P403 Protect from sunlight. Store in a well-ventilated place.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**
 - 68476-86-8 Petroleum gases, liquefied, sweetened (Nota K, -R45, R46, <0.1% 1,3-butadiene buta-1,3-diene)
- **Identification number(s)**
- **EC number:** 270-705-8
- **Index number:** 649-203-00-1

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
 - No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.01.2021

Version number 5

Revision and application 11.01.2021

Trade name: Cartouches Gas Sécurisée

(Contd. of page 2)

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Keep away from heat and direct sunlight.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep container tightly sealed.

· Recommended storage temperature: Storage temperature : Room temperature

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

68476-86-8 Petroleum gases, liquefied, sweetened (Nota K, -R45, R46, <0.1% 1,3-butadiene buta-1,3-diene) (100%)

WEL Short-term value: 2180 mg/m³, 1250 ppmLong-term value: 1750 mg/m³, 1000 ppm

Carc (if LPG contains > 0.1% of buta-1,3-diene)

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures: Wash hands before breaks and at the end of work.

· Respiratory protection: Not required.

· Hand protection

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Not required.

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Gaseous

· Colour:

Colourless

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.01.2021

Version number 5

Revision and application 11.01.2021

Trade name: Cartouches Gas Sécurisée

(Contd. of page 3)

· Odour:	Recognisable
· Melting point/freezing point:	-187 - -138 °C
· Boiling point or initial boiling point and boiling range	-0.5 °C
· Lower and upper explosion limit	
· Lower:	1.8 Vol %
· Upper:	15 Vol %
· Flash point:	-60 °C
· Auto-ignition temperature:	287 - 537 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Solubility	
· water at 20 °C:	24.4 - 60.4 mg/l
· Partition coefficient n-octanol/water (log value)	1.09 - 2.8 log POW
· Vapour pressure at 20 °C:	505 hPa
· Density and/or relative density	
· Density:	Not determined.
· Relative density at 20 °C	0.4228-0.589 g/cm ³

· 9.2 Other information	
· Appearance:	
· Form:	Compressed liquefied gas
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	0.0 %
· VOC (EC)	0.00 %

· Information with regard to physical hazard classes	
· Explosives	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

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.01.2021

Version number 5

Revision and application 11.01.2021

Trade name: Cartouches Gas Sécurisée

(Contd. of page 4)

- **10.4 Conditions to avoid**
 - Open flame
 - Sparks
 - Avoid temperatures above 50°C
- **10.5 Incompatible materials:** Halogen
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

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

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

68476-86-8 Petroleum gases, liquefied, sweetened (Nota K, -R45, R46, <0.1% 1,3-butadiene buta-1,3-diene)

CL50	24.11-147.54 mg/l (96h) (Fish)
CE50	7.02-69.43 mg/l (48h) (daphnia)
CI50	7.71-16.5 mg/l (algae)

- **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** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.01.2021

Version number 5

Revision and application 11.01.2021

Trade name: Cartouches Gas Sécurisée

(Contd. of page 5)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number	UN2037
· ADR, IMDG, IATA	
· 14.2 UN proper shipping name	2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
· ADR	
· IMDG, IATA	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
· 14.3 Transport hazard class(es)	
· ADR	
	
· Class	2 5F Gases.
· Label	2.1
· IMDG, IATA	
	
· Class	2 Gases.
· Label	2.1
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Gases.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-D,S-U
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	120 ml

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.01.2021

Version number 5

Revision and application 11.01.2021

Trade name: Cartouches Gas Sécurisée

(Contd. of page 6)

· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t**
- **National regulations:**
- **Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**

SECTION 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.

- **Date of previous version: 11.01.2021**
- **Version number of previous version: 4**
- **Abbreviations and acronyms:**
 ADR: Accord européen sur le transport 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
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1A: Flammable gases – Category 1A
 Press. Gas (Comp.): Gases under pressure – Compressed gas
- *** Data compared to the previous version altered.**

GB