

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

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

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- **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.*

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- **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%)

<i>WEL</i>	<i>Short-term value: 2180 mg/m³, 1250 ppm</i>
	<i>Long-term value: 1750 mg/m³, 1000 ppm</i>
	<i>Carc (if LPG contains > 0.1% of buta-1.3-diene)</i>

- **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*

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· 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.

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- **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.

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

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA 	UN2037	
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)	
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR 	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	2 5F Gases. 2.1
<ul style="list-style-type: none"> · IMDG, IATA 	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	2 Gases. 2.1
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	Void	
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No	
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code 	Warning: Gases. - F-D,S-U B SW2 Clear of living quarters.	
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.	
<ul style="list-style-type: none"> · Transport/Additional information: 		
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code 	1L Code: E0 Not permitted as Excepted Quantity 2 D	
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) 	120 ml	

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· 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.**

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