LIGHTER REFILLS containing flammable gas – UN 1057

NOTE: The documents printed or distributed are only for immediate use.

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Substance/mixture identification: Liquefied petroleum gas (LPG)
Trade name: CLIPPER® Universal Butane Gas
Brand: CLIPPER®

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

Recommended use: Refilling of lighters and multipurpose lighters

1.3. Details of the supplier of the safety data sheet

Company: CLIPPER 1959, S.L.U.
Metalurgia, 38-42
Barcelona (Spain)
Post code: 08038
Phone: +34 93 291 05 05

Competent person responsible for the safety data sheet: rmiro@flamagas.com

1.4. Emergency telephone number

Phone: +34 93 842 64 25 (24 hours)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

GHS02: Danger, Flam. Gas 1, Extremely flammable gas.
GHS04: Warning, Press. Gas (Comp.), Contains gas under pressure. May explode if heated.



GHS02 GHS04

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

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

Precautionary statements:

P102 Keep out of reach of children
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.

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Special Provisions: None
Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards: No other hazards

Section 3. Composition/information on ingredients

3.1. Substances

Identification of the substance: Liquefied petroleum gas (LPG)
Trade code: UN 1057 – LIGHTER REFILLS containing flammable gas (up to 65g of contents)

Qty	Name	Ident. Number	Classification
>= 90%	N-butane	Formule: C_4H_{10} Index number: 601-004-00-0 CAS: 106-97-8 EC number: 203-448-7 REACH N°: 01-2119474691-32	2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280

3.2. Mixtures

N.A.

Section 4. First aid measures

4.1. Description of first aid measures

In case of skin contact:

- Wash with plenty of water and soap. In case of cool burns due to a fast leak of gas, immediate medical attention is recommended

In case of eyes contact:

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of ingestion:

- Unlikely

In case of inhalation:

- Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

Section 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: CO_2 or dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons: None in particular.

5.2. Special hazards arising from the substance or mixture

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Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Clear up carefully. Do not use shovel or similar.

6.4. Reference to other sections

See also sections 8 and 13

Section 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Protect from sunlight
Always keep in a well ventilated place.
Recommended storing temperature: 20 ± 10°C.
Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials: None in particular.
Instructions as regards storage premises: Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

Section 8. Exposure controls/personal protection

8.1. Control parameters

N-butane - CAS: 106-97-8
ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair
TWA - TWA(8h): 600 mg/m3, 1450 ppm - STEL(15 min.): 750 mg/m3, 1810 ppm - Notes: W4EL
DNEL Exposure Limit Values: N.A.

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PNEC Exposure Limit Values: N.A.

8.2. Exposure controls

Eye protection: Not needed for normal use. Anyway, operate according good working practices.
Protection for skin: No special precaution must be adopted for normal use.
Protection for hands: Wearing gloves is recommended for hadling .
Respiratory protection: Not needed for normal use.
Thermal Hazards: None
Environmental exposure controls: None
Appropriate engineering controls: None

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Gas condensed to liquid	--	--
Colour:	N.A.	--	--
Odour:	Faint disagreeable odour	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flam. Gas 1A, H220	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	460ºC ºC	--	--
Decomposition temperature:	N.A.	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Not Relevant	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	2,34 bar (20ºC)	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	>1 (air=1)	--	20ºC

Particle characteristics:

Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

Section 10. Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

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10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

Section 11. Toxicological information

11.1. Information on toxicological effects

Toxicological information of the substance: GAS REFILLS containing flammable gas

a) acute toxicity
   Not classified
   Based on available data, the classification criteria are not met
b) skin corrosion/irritation
   Not classified
   Based on available data, the classification criteria are not met
c) serious eye damage/irritation
   Not classified
   Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation
   Not classified
   Based on available data, the classification criteria are not met
e) germ cell mutagenicity
   Not classified
   Based on available data, the classification criteria are not met
f) carcinogenicity
   Not classified
   Based on available data, the classification criteria are not met
g) reproductive toxicity
   Not classified
   Based on available data, the classification criteria are not met
h) STOT-single exposure
   Not classified
   Based on available data, the classification criteria are not met
i) STOT-repeated exposure
   Not classified
   Based on available data, the classification criteria are not met
j) aspiration hazard
   Not classified
   Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product: N.A.

11.2. Information on other hazards

Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1%

Section 12. Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. GAS REFILLS containing flammable gas:

- Not classified for environmental hazards
- Based on available data, the classification criteria are not met

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

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N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

Section 13. Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Section 14. Transport information

14.1. UN number



ADR-UN Number:	1057
IATA-UN Number:	1057
IMDG-UN Number:	1057
GGVS/GGVE:	1057

14.2. UN proper shipping name

ADR/GGVS-Shipping Name:	LIGHTERS or LIGHTER REFILLS containing flammable gas
RID-/GGVE Shipping Name:	LIGHTERS or LIGHTER REFILLS containing flammable gas
IATA-Shipping Name:	LIGHTERS or LIGHTER REFILLS containing flammable gas
IMDG/GGVSee-Shipping Name:	LIGHTERS or LIGHTER REFILLS containing flammable gas

14.3. Transport hazard class(es)

ADR-Class:	2
ADR - Hazard identification number:	23
IATA-Class:	2
IATA-Label:	2.1
IMDG-Class:	2

14.4. Packing group

ADR-Packing Group:	-
IATA-Packing group:	II
IMDG-Packing group:	-

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No
IMDG-EmS:	F-D, S-U

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14.6. Special precautions for user

ADR-Subsidiary risks:	-
ADR-S.P.:	652 657 660 662
ADR-Transport category (Tunnel restriction code):	2 (B/D)
IATA-Passenger Aircraft:	Forbidden
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	200
IATA-S.P.:	A1
IATA-ERG:	10L
IMDG-EmS:	F-D, S-U
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category E SW2
IMDG-Segregation:	-

14.7. Maritime transport in bulk according to IMO instruments

N.A.

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: Restriction 40
Restrictions related to the substances contained: No restriction.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

Section 16. Other information

Full text of phrases referred to in Section 3:

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

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Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Press. Gas	2.5	Gases under pressure
Press. Gas (Comp.)	2.5/C	Gases under pressure (Compressed gas)

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GGVS:	German decree on road transport of material
GGVE:	German decree on rail transport of hazardous material
GGVSee:	German decree on maritime transport of hazardous material
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IMDG:	International Maritime Code for Dangerous Goods.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TWA:	Time-weighted average

******* END OF SAFETY DATA SHEET *******

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