



SAFETY DATA SHEET

REVISION:

15I

DATE:

04/03/2024

DISPOSABLE AND REFILLABLE LIGHTERS

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

WARNING: Lighters are articles, not substances or mixtures. As articles, Safety Data Sheet is not required according to different International Regulations:

- United Nations.- Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
 - Article 1.3.2.1: "Articles as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of United States of America, or by similar definition, are outside the scope of the system"
- United States.- OSHA 29 CFR 1910.1200.
 - Article (b)(6) and (b)(6)(V): "This section does not apply to ... articles"
- European Union.- Regulation 1907/2006 [REACH] and its "Guidance on the compilation of safety data sheets" (Edition December 2020 - Version 4.0) published by the ECHA (European Chemicals Agency):
 - Article 1.1: "SDSs do not have to be provided for articles. Although the SDS format may, for a few specific articles, be used to convey safety information down the supply chain..."

This document is intended to provide information and guidance for correct use, handling, storage, and transport of lighters down the whole supply chain, including hazard information in accordance with 29 CFR 1910.1200.

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

1.1 Product identifier.

Substance/mixture identification (**refers to gas only**): Liquefied petroleum gas (LPG)

Trade name: Disposable and refillable lighters

Brand: CLIPPER

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

Recommended use: Ignition of cigarette, pipes and similar

UN #: 1057 - Lighters

1.3 Details of the supplier of the safety data sheet.

Company: CLIPPER 1959, S.L.U.

Metalurgia, 38-42

08038 Barcelona (Spain)

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

Gas is the only dangerous component of lighters. Under reasonable conditions of storage and use, the liquefied petroleum gas carries a negligible risk to health.

2.1 Classification of the substance or mixture (**refers to gas only**)

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

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2.2 Label elements (refers to gas only)

Hazard pictograms:



Danger

Hazard statements:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Precautionary statements:

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.

P403 Store in a well-ventilated place.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

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

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

(refers to gas only): Liquefied petroleum gas (LPG)

Trade code: LIGHTERS UN 1057

| Qty | Name | Ident. Number | Classification |
|---------|-----------|--|---|
| Min 95% | Isobutane | Formule: C ₄ H ₁₀ Index number: 601-004-00-0 CAS: 75-28-5 EC number: 200-857-2 REACH N°: 01-2119485395-27 | 2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280 |
| Max 5% | N-butane | Formule: C ₄ H 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 |
| Max 3% | Propane | Formule: C ₃ H ₈ Index number: 601-003-00-5 CAS: 74-98-6 EC number: 200-827-9 REACH N°: 01-2119486944-21 | 2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280 |



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Section 4. First aid measures

4.1. Description of first aid measures

In case of skin contact:

- (product): in case of burn, do not touch the burns and cover the victim
- (gas heavy leakage): 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:

- (product): unlikely
- (gas heavy leakage): rinse immediately with plenty of water and seek medical advice.

In case of ingestion:

- (product): unlikely
- (gas): unlikely

In case of inhalation:

- (product): unlikely
- (gas): 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: CO₂ 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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Lighters can explode and be hurled at great speed

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.

Do not tread or crush the lighters

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.



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6.2. Environmental precautions

In case of fuel leaks: To air the affected area.

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 section 8 and 13

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle boxes of product with care.

Do not smoke and never expose to heat sources or sparks during the handling.

It is necessary to avoid the fall of boxes - risk of fire.

7.2. Conditions for safe storage, including any incompatibilities

Protect from sunlight

Always keep and store in a well ventilated place.

Recommended storing temperature: $20 \pm 10^{\circ}\text{C}$.

Keep away from unguarded flame and heat sources.

Avoid direct exposure to sunlight for too long time.

Do not pile up more than 2 pallets of product - 2,80 m.

Products must be stored in horizontal position.

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 (refers to gas only)

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.

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 handling.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None



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Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties (refers to gas only)

| 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: | 460°C °C | -- | -- |
| 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 (20°C) | -- | -- |
| Density and/or relative density: | N.A. | -- | -- |
| Relative vapour density: | >1 (air=1) | -- | 20°C |
| 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.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

None.



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Section 11. Toxicological information

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

Toxicological information of the product: LIGHTERS

- 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 $\geq 0.1\%$

Section 12. Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. LIGHTERS:
Not classified for environmental hazards. Based on available data, the classification criteria are not met

12.2. Persistence and degradability

N.A.

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12.3. Bioaccumulative potential

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 $\geq 0.1\%$

12.7. Other adverse effects

None

Section 13. Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorized 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



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 #: -
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-Environmental Pollutant: No
IMDG-Marine pollutant: No

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)

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| | |
|----------------------------|----------------|
| 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 (refers to gas only)

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 (refers to gas only)

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 1A | 2.2/1A | Flammable gas, Category 1A |
| Press. Gas | 2.5 | Gases under pressure |
| Press Gas (Comp.) | 2.5/C | Gases under pressure (Compressed gas) |

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Flam. Gas 1A, H220 | On basis of test data |
| Press Gas (Comp.), H280 | On basis of test data |

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 *****