



SICHERHEITSDATENBLATT

REVISION:

5D

DATUM:

03/12/12

EINWEG- UND NACHFÜLLBARE FEUERZEUGE

HINWEIS: Die gedruckten Dokumente dienen lediglich zu Informationszwecken und sind keine Gewährleistung ihrer Gültigkeit.

1. BEZEICHNUNG

1.1 Bezeichnung des Produktes

Produkt: Einweg- und nachfüllbare Feuerzeuge
Inhalt des Produktes: Flüssiges Erdölgas (GLP)
Marke: CLIPPER
Allgemeiner Anwendungsbereich: Anzünden von Zigaretten
UNO-Nummer: 1057-Feuerzeuge

1.2 Bezeichnung des herstellenden Unternehmens:

CLIPPER 1959, S.L.U.
Metalurgia, 38-42
08038 Barcelona (Spanien)
TEL. +34 93 291 05 05
FAX. +34 93 291 05 03
Notfälle: +34 93 842 64 25

2. ZUSAMMENSETZUNG / GEFÄHRLICHE BESTANDTEILE

Das Gas ist das einzige gefährliche Bestandteil.
Das Gas besteht aus einer Mischung von Kohlenwasserstoffen (Butan, Propan und Isobutan).

Eigenschaften der Bestandteile des Gases

Isobutan	Propan	Butano
CAS-Nr. : 75-28-5	CAS-Nr. : 74-98-6	CAS-Nr. : 106-97-8
ICSC-Nr.: 0901	CSC-Nr.: 0319	ICSC-Nr.: 0232
RTECS-Nr.: TZ4300000	RTECS-Nr.: TX2275000	RTECS-Nr.: EJ4200000
EG-Nr.: 200-857-2	EG-Nr.: 200-827-9	EG-Nr.: 203-448-7
Index-Nr.: 601-004-00-0	Index-Nr.: 601-003-00-5	Index-Nr.: 601-004-00-0
OSHA PEL: 800 PPM	OSHA PEL: 1000 PPM	OSHA PEL: 800 PPM
ACGIH TLV: 1000 PPM	ACGIH TLV: 1000 PPM	ACGIH TLV: 1000 PPM
UN-Nr.:1969	UN-Nr.:1978	UN-Nr.:1011
Volumenanteil: Min. 95%	Volumenanteil: < 5%	Volumenanteil: < 5%

3. INFORMATIONEN ÜBER GEFÄHRLICHE PRODUKTE

Unter normalen Lagerungs- und Gebrauchsbedingungen ist das Erdöl-Flüssiggas kaum Gesundheitsgefährdend. Da aber das Gas schwerer als Luft ist, kann es sich in unbelüfteten Räumen ansammeln und Konzentrationen erreichen, die eine Explosions- oder Erstickungsgefahr darstellen können. Der direkte Hautkontakt mit dem Flüssiggas kann Erfrierungen oder kalte Verbrennungen verursachen. Die Feuerzeuge an sich können ein ähnliches Erfrierungsrisiko darstellen, wenn das Gas extrahiert wird. Die Handhabungshinweise des Feuerzeugs sind strikt zu beachten.

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4. ERSTE-HILFE-MASSNAHMEN

Bei Verbrennungen: Die betroffenen Stellen nicht berühren und das Opfer zudecken.

Im Falle von durch das rasch expandierende Gas oder flüssige Medium verursachten Kaltverbrennungen, sofort ärztliche Hilfe aufsuchen.

Bei Atemstillstand: Mund-zu-Mund-Beatmung und Herzwiederbelebung einleiten.

Bei Atemversagen: Sauerstoff einatmen.

In allen Fällen: Rettungsdienste benachrichtigen und das Opfer sofort ins Krankenhaus einliefern.

5. LÖSCHVERFAHREN

Geeignete Feuerlöcher: Pulver, CO₂, Schaum, Wasser, Sand.

Nicht geeignete Feuerlöcher: Keine.

Spezielle Schutzkleidung: Gesichtsmaske

Zusätzlicher Hinweis: Die Feuerzeuge können explodieren und mit hoher Geschwindigkeit weggeschleudert werden.

6. MASSNAHMEN BEI UNBEABSICHTIGTER FREISETZUNG

Personenbezogene Vorsichtsmaßnahmen:

a1) In allen Fällen: Nicht auf das Feuerzeug treten oder es zerdrücken. Nicht rauchen oder jegliche Art von Feuer anfachen oder Funken erzeugen.

a2) Beim Austreten des Inhaltes des Feuerzeugs: Den betroffenen Bereich ausreichend lüften.

Vorsichtsmaßnahmen für die Umwelt: Keine

Vorsichtsmaßnahmen bei der Reinigung: Den Schmutz vorsichtig entfernen. Keine Messer oder dergleichen dabei verwenden.

7. HANDHABUNG UND LAGERUNG

7.1 Handhabung

Die Verpackungen mit dem Produkt mit Vorsicht handhaben. Während der Handhabung nicht rauchen, Feuer entfachen oder Funken erzeugen. Den Fall der Verpackungen vermeiden (Brandgefahr). Nicht mehr als zwei Paletten übereinander stapeln (Max. 2,80 m Höhe). In horizontaler Position lagern.

7.2 Lagerung

An einem ausreichend belüfteten Ort lagern. Nicht bei Temperaturen über 50 °C lagern. Nicht während einer längeren Zeit der direkten Sonneneinstrahlung aussetzen.

8. PERSÖNLICHE SCHUTZMASSNAHMEN / EXPOSITIONSGRENZEN

Nur im Falle einer Leckage oder Ausschüttung anwendbar.

Nach internationalen Empfehlungen zur Expositionsbegrenzung von Kohlenwasserstoffen:

OSHA PEL: 800 PPM

ACGIH TLV: 1000 PPM



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9. PHYSIKALISCHE UND CHEMISCHE EIGENSCHAFTEN

Eigenschaften des Inhaltes der Feuerzeuge:

Aussehen: Flüssigkeit im Innern, Gas bei Kontakt mit der Atmosphäre.

Farbe: Farblos.

Geruch: geruchlos.

Selbstentzündungstemperatur: 460 °C.

Dampfdruck: 2,34 bar (bei 20 °C)

10. STABILITÄT UND REAKTIVITÄT

Das Produkt an sich ist nicht reaktiv. Die Verbrennung ist die einzige gefährliche Reaktion. Es ist wichtig, hohe Temperaturen und Konzentrationen von Gasen in der Luft zu vermeiden.

11. ANGABEN ZUR TOXIKOLOGIE

Nicht toxisch.

12. UMWELTBEZOGENE ANGABEN

Das Produkt ist nicht Umweltgefährdend.

13. ENTSORGUNG

Produkt: Im Allgemeinen erzeugen Feuerzeuge keine Abfälle.

Leere Feuerzeuge: Recyclingfähig nach deren Demontage.

Gasfeuerzeuge: Bei einem autorisierten Abfallverwertungsunternehmen abliefern.

14. ANGABEN ZUM TRANSPORT

- a) Land: ADR/RID, GGVSEB. Klasse 2.1, Nummer 6.b, Bezeichnung UNO 1057-Feuerzeuge
- b) See: (IMDG /German decree for maritime transport: GGVSee). Klasse 2.1, IMDG-Code, United Nations Number 1057 P.G. II, MFAG # 311, EMS # > 2-13.
- c) Luft: OACI-TI&IATA-DGR. Klasse 2, UNO-Nr. 1057 P.G. II, packing instructions 201.

Markierung für den Transport:





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15. ANWENDBARE NORMEN

In Übereinstimmung mit der geltenden Norm ADR / IMDG / IATA in Bezug auf Produkte mit der Bezeichnung UN 1057

R-Sätze:

R12: Hochentzündlich

S-Sätze:

S2: Darf nicht in die Hände von Kindern gelangen.

S9: Behälter an einem gut belüfteten Ort aufbewahren.

S16: Fernhalten von Zündquellen (offenen Flamme und Funken). Nicht rauchen.

16. ZUSÄTZLICHE ANGABEN


Das Produkt enthält ein hochentzündliches verflüssigtes Gas.

Bei Kontakt mit der Luft bildet sich ein explosives Gasgemisch.

Hohe Temperaturen führen zu einer Erhöhung des Innendrucks (Gefahr von Lecks oder Explosionen).

Das Gas in diesem Produkt ist schwerer als Luft.






Bei Leckage breitet sich das Gas in Bodennähe aus.

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

- 1.1. Product identifier
Mixture identification:
Trade name: LIGTHERS FLUID UN 1268
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Ligthers fluid
- 1.3. Details of the supplier of the safety data sheet
Company:
CLIPPER 1959, S.L.U.
Metalurgia, 38-42
08038 Barcelona (Spain)
TEL. +34 93 291 05 05
FAX. +34 93 291 05 03
- Competent person responsible for the safety data sheet:
nballesta@flamagas.com
- 1.4. Emergency telephone number
+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)
-  Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
 -  Warning, Skin Irrit. 2, Causes skin irritation.
 -  Warning, STOT SE 3, May cause drowsiness or dizziness.
 -  Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
 -  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

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

- 2.2. Label elements
Hazard pictograms:



Danger
Hazard statements:
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.



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Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P331 Do NOT induce vomiting.

P370+P378 In case of fire, use water to extinguish.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

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:

Name:

Solvent naphtha (petroleum), light arom.

CAS number:

64742-95-6

3.2. Mixtures

N.A.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

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

In case of Ingestion:

Do NOT induce vomiting.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.



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SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - Water spray
 - 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.
- 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
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 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.
 - Exercise the greatest care when handling or opening the container.
 - 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.
 - Contaminated 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.
 - Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:



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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
LIGHTERS FLUID UN 1268 - CAS: 64742-95-6
TWA - TWA: 2000 mg/m³ - STEL: 350 ppm

DNEL Exposure Limit Values
N.A.

PNEC Exposure Limit Values
N.A.

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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:
Appearance and colour:	Colorless liquid	--	--
Odour:	Proper odor to gasoline / solvent.	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	-48~-26 °C	--	--
Initial boiling point and boiling range:	138~178 °C	ASTM D86	--
Flash point:	45 - 47,5 °C	ASTM D56	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	Upper limit : 6.5 ; Lower limit : 0.6	--	--
Vapour pressure:	0.2-0.6 kPa	--	--
Vapour density:	N.A.	--	--
Relative density:	0.75~0.82 g/cm ³ (25°C)	--	--
Solubility in water:	Insoluble in water	--	--
Solubility in oil:	Soluble in organic solvents	--	--



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Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	229~260 °C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

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

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

CO,CO2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the substance:

LIGHTERS FLUID UN 1268 - CAS: 64742-95-6

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

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



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- 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
The product is classified: STOT SE 3 H336
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
The product is classified: Asp. Tox. 1 H304

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
LIGTHERS FLUID UN 1268 - CAS: 64742-95-6
The product is classified: Aquatic Chronic 2 - H411
- 12.2. Persistence and degradability
N.A.
- 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. 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: 1268
IATA-UN Number: 1268
IMDG-UN Number: 1268
- 14.2. UN proper shipping name
ADR-Shipping Name: PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.



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IATA-Shipping Name: PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.
IMDG-Shipping Name: PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.

14.3. Transport hazard class(es)

ADR-Class: 3
ADR - Hazard identification number: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3

14.4. Packing group

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

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant

14.6. Special precautions for user

ADR-Subsidiary risks: -
ADR-S.P.: 640C 664
ADR-Transport category (Tunnel restriction code): 2 (D/E)
IATA-Passenger Aircraft: 353
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 364
IATA-S.P.: A3
IATA-ERG: 3H
IMDG-EmS: F-E , S-E
IMDG-Subsidiary risks: -
IMDG-Stowage and handling: Category B
IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

For packages max. 133 ml transport in limited quantities

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. 2015/830
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)



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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 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

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 MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
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).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.



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LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
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.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

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



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DISPOSABLE AND REFILLABLE LIGHTERS

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

1. IDENTIFICATION

1.1 Product identification.-

Product: Disposable and refillable lighters
Contents: Liquefied petroleum gas (LPG)
Brand: CLIPPER
Main use: Ignition of cigarette, pipes and similar
UN #: 1057 Lighters

1.2 Company identification.-

CLIPPER 1959, S.L.U.
Metalurgia, 38-42
08038 Barcelona (Spain)
TEL. +34 93 291 05 05
FAX. +34 93 291 05 03
Emergency call: +34 93 842 64 25

2. INFORMATION ABOUT COMPONENTS

Gas is the only one dangerous component. It has a concentration > 95% of Isobutane.

The gas composition is a mixture of hydrocarbons - Butane, Propane and Isobutane mainly.

Component's properties.-

Isobutane.-	Propane.-	Butane.-
CAS N°: 75-28-5	CAS N°: 74-98-6	CAS N°: 106-97-8
ICSC N°: 0901	CSC N°: 0319	ICSC N°: 0232
RTECS N°: TZ4300000	RTECS N°: TX2275000	RTECS N°: EJ4200000
CE N°: 200-857-2	CE N°: 200-827-9	CE N°: 203-448-7
Index N°: 601-004-00-0	Index N°: 601-003-00-5	Index N°: 601-004-00-0
OSHA PEL: 800 PPM	OSHA PEL: 1000 PPM	OSHA PEL: 800 PPM
ACGIH TLV: 1000 PPM	ACGIH TLV: 1000 PPM	ACGIH TLV: 1000 PPM
UN #:1969	UN #:1978	UN #:1011
Volume fraction: 95% minimum	Volume fraction: < 5%	Volume fraction: < 5%

3. INFORMATION ABOUT HAZARDOUS PRODUCTS

Under reasonable conditions of storage and use, the liquefied petroleum gas carries a negligible risk to health. However, being heavier than air, the gas can accumulate in unventilated spaces and can reach concentrations that could become a risk of explosion or asphyxiation. The direct skin contact with liquefied gas can cause frostbite or cold burns. The lighters may put in a similar risk when gas is extracted, due to the cooling effect. Strict precautions must be observed for handling.



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4. FIRST AID

In case of burn: Do not touch the burns and to cover the victim.

In case of cool burns due to a fast leak of gas or liquid: Immediate medical attention is recommended

In case of respiratory arrest: To give mouth-to-mouth and cardiac resuscitation

In case of respiratory failure: To inhale oxygen

In all cases: To call the emergency services and to hospitalize urgently.

5. EXTINCTION RESOURCES

Usable fire extinguisher types: Powder, CO₂, foam, water, sand.

Unusable fire extinguisher types: None

Special protection wear: Face mask

Additional information: Lighters can explode and be hurled at great speed.

6. MEASURES TO TAKE IN CASE OF ACCIDENTALLY SPILLING

Cautions for people: a1) In all cases: Do not tread or crush the lighters. Do not smoke or to light any fire type or spark.

a2) In case of fuel leaks: To air the affected area.

Cautions for environment: None

Clean cautions: Clear up carefully. Do not use shovel or similar.

7. HANDLING & STORAGE

7.1 Handling

Handle the product of boxes 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. Do not pile up more than 2 pallets of product - 2,80 m. Products must be stored in horizontal position.

7.2 Storage

To store in ventilated place. Do not store to temperatures above 50°C. Never expose to the sun's rays for too long time.

8. EXPOSURE TIME / PERSONAL PROTECTION

Only in case of gas leakage.

According international recommendations about limits of exposure to hydrocarbons:

OSHA PEL: 800 PPM

ACGIH TLV: 1000 PPM



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9. PHYSICAL & CHEMICAL PROPERTIES

Gas properties:

Aspect: Liquid form into the lighter, gas form out of lighter.
Colour: Not coloured.
Odour: Imperceptible.
Flash point: 460°C.
Vapour pressure: 2,34 bars (20°C)

10. STABILITY & REACTIVITY

The product is not reactive himself. The combustion is the only one dangerous reaction. It is necessary to avoid high temperatures or gas concentrations on air.

11. TOXICOLOGICAL INFORMATION

No toxic.

12. ECOLOGICAL INFORMATION

The product is not harmful for environment

13. DISPOSAL OF THE WASTE

Product: Usually, the lighter don't produces waste.
Empty lighter: Recyclable after dismantling.
No empty lighter: To give to an authorized waste management company.

14. INFORMATION REGARDING TRANSPORT

- a) Land: ADR/RID, GGVSEB. Class 2, number 6° b, denomination 1057 P.G. II Lighters.
b) Maritime(IMDG /German decree for maritime transport: GGVSee). Class 2, code IMDG, Packing group n° II, United Nations # 1057 P.G. II, MFAG # 311, EMS #> 2-13.
c) Air: OACI-TI&IATA-DGR. Class 2, United Nations # 1057 P.G. II, packing instructions 201.

Transport identification:





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15. REGULATION INFORMATION

Conformance with the standard ADR/IMDG/IATA regarding products classified by UN 1057, class 2, figure 6°, letter F and risk label #3.

Risk phrases:

R12: Extremely flammable

Safety phrases:

S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place

S16: Keep away from sources of ignition - No smoking

16. OTHER INFORMATIONS

Contents extremely volatile and flammable liquefied gas.

In contact with air, the gas forms an explosive mixture.

High temperatures cause an internal pressure increase – risk of leaks or explosion.

The gas is more heavy than the air. In case of leaks, the gas spreads on the floor.