

REVISION: 5I DATE: 03/12/12

## 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 Nº: 75-28-5	CAS Nº: 74-98-6	CAS Nº: 106-97-8
ICSC Nº: 0901	CSC Nº: 0319	ICSC Nº: 0232
RTECS Nº: TZ4300000	RTECS Nº: TX2275000	RTECS Nº: EJ4200000
CE Nº: 200-857-2	CE Nº: 200-827-9	CE Nº: 203-448-7
Index Nº: 601-004-00-0	Index Nº: 601-003-00-5	Index Nº: 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 accumulates in unventilated spaces and can reaches concentrations that could become in 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.

Page 1 of 4



Print date: 21/01/13





# DISPOSABLE AND REFILLABLE LIGHTERS

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

### 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, CO<sub>2</sub>, 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

Print date: 21/01/13

Page 2 of 4





REVISION: 5I DATE: 03/12/12

## DISPOSABLE AND REFILLABLE LIGHTERS

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

### 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:



Print date: 21/01/13







REVISION: 5I DATE: 03/12/12

## DISPOSABLE AND REFILLABLE LIGHTERS

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

## **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 placeS16: 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.



Print date: 21/01/13

Page 4 of 4