

# MSDS - GAS LIGHTERS (IMO 2.1, UNNO 1057)

SAFETY DATA SHEET FOR CIGARETTE LIGHTERS WITH HYDROCARBON GAS

Product Code: 1057-1057-1

Gas Lighter

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VIET GIAI THANH CO., LTD

LATEST REVISION DATE: JAN 10, 2017

## SECTION 1:

### PRODUCT AND COMPANY IDENTIFICATION :

**PRODUCT NAME:** Gas lighter (IMO 2.1 UN 1057)

**NAME OF THE SUPPLIER:** VIET GIAI THANH CO., LTD

**ADDRESS OF THE SUPPLIER:** 8A AN DUONG VUONG RD, WARD 16, DIST 8, HOCHIMINH CITY

**TELEPHONE NUMBER:** 84 8 39801587

## SECTION 2:

### COMPOSITION / INFORMATION ON INGREDIENTS :

Disposable gas lighters contain a liquefied petroleum gas (LPG)

Composition of the LPG: Etan : 0.10%mol, Propan: 4.54%mol, Iso Butan: 28.89%mol, Normal Butan : 64.89%mol  
Neo Pentan: 0.19%mol, Iso Pentan: 1.20%mol, Normal Pentan: 0.19%mol

Molecular weight:57.86 (calculated)

## SECTION 3:

### HAZARD IDENTIFICATION :

The lighter may burst individually when exposed to high temperatures such as open flame.

The gas causes drowsiness and is an asphyxiant when exposed to in large quantities; however, lighters are not a health hazard.

Lighters do not present a health hazard

Risk of explosion of individual lighter when submitted to unforeseeable abnormal shock, unforeseeable abnormal friction.

## SECTION 4:

### FIRST-AID MEASURES

In case of hazardous burning on a person, put out the fire by wet clothes on the person, throw water on the burning parts or extinguish by fire extinguisher, then send the sick to hospital timely if necessary.

Do not use fats on the burning parts.

Do not remove the clothes in the burning region.

## SECTION 5:

### FIRE-FIGHTING MEASURES :

**EXTINGUISHING MEDIA:** Carbon dioxide dry chemical or water spray.

**SPECIFIC HAZARD:** Protection from bursting lighters is required if lighters are subjected to high temperature or open flames.



**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<i>PERSONAL PRECAUTIONS:</i>	Use the lighter by correctly method as per the safety requirements.
<i>ENVIRONMENTAL PRECAUTIONS:</i>	Do not use the lighter in flammable environment Assemble the defence exhaust fan at workshop
<i>METHODS FOR CLEANING UP:</i>	Open the window and eliminate by the defence exhaust fan. The gas in small quantity evaporates directly in the air.

**SECTION 7: HANDLING AND STORAGE**

<i>HANDLING:</i>	Ignite lighter away from face and clothing. Be sure the flame is completely out after each use. Do not puncture or put in fire. Do not keep lit for more than 30 seconds. Do not expose the lighter to heat or high temperature. Avoid direct contact with acid and solvents.
<i>STORAGE:</i>	Do not store the lighter at high temperature or close to a heat source. Store the lighter at the suitable environment not above 50 °C in dry and well ventilated places. Be sure the lighters is completely out before any storage. Avoid the storage of lighters close to highly flammable materials. Containers for lighters shall be well ventilated. Cartons of lighters are conform to UN1057.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

No specific personal protective equipment.
Protection from bursting lighters is required if lighters are subjected to high temperature or open flame.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<i>PHYSICAL STATE:</i>	Liquefied gas
<i>COLOR AND ODOR:</i>	Colorless with faint disagreeable odor
<i>pH VALUE</i>	Not relevant.
<i>CHANGE IN PHYSICAL STATE:</i>	Boiling point at 1 atm: 20°C
<i>FLASH POINT:</i>	- 40°C
<i>AUTOIGNITION TEMPERATURE:</i>	Minimum temperature at 1 ATM: 420°C
<i>FLAMMABLE LIMITS IN THE AIR:</i>	Lower limit at 20°C, 1 atm: 1.8% Upper limit at 20V, 1 atm: 9.0%
<i>EXPLOSION PROPERTIES:</i>	Maximum content of O2(1 atm): 12% vol
<i>VAPOUR PRESSURE:</i>	Circa 345 kPa at 15°C
<i>VAPOUR DENSITY:</i>	Circa 2 at 15°C
<i>DENSITY:</i>	Circa 575 kg/m <sup>3</sup> at 15°C
<i>SOLUBILITY:</i>	Bunsen coefficient at 20°C: 0.03



*Nhà Chỉ Cường*

(Based on ISO 11014-1)

**SECTION 10: STABILITY AND REACTIVITY**

The gas kept inside the lighter is stable.  
Instabilities mainly characterized by burst may occur when the lighter is exposed to excessive heat.

HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>2</sub>, CO or open flame

**SECTION 11: TOXICOLOGICAL INFORMATION**

No acute toxicity nor local effect.

**SECTION 12: ECOLOGICAL INFORMATION**

The by-products from degradation of lighters are CO and H<sub>2</sub>O

**SECTION 13: DISPOSABLE CONSIDERATIONS**

Damaged lighters are to be returned to distributor or manufacturer.  
Empty lighters may be disposed at suitable landfill or should conform to the local legislation.  
Do not incinerate or puncture.

**SECTION 14: TRANSPORT INFORMATION**

INTERNATIONAL REGULATIONS: LAND: RID,RTM,DoT 49 CFR,ADR.  
AIR: IATA-DGR,OACI-IT.  
SEA:OMI,IMDG.  
IMO : 2.1  
UN NO : 1057  
PKG : NIL



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**SECTION 15: REGULATORY INFORMATION**

Keep away from children.  
 Misuse may cause serious injury.  
 Follow instructions: Ignite the lighter away from face and clothing.  
 Be sure the flame is out after use.  
 Contain flammable gas under pressure.  
 Never expose to heat above 121°F(49°C) or to prolonged sunlight  
 Never puncture or put in a fire.  
 Do not keep it lit for more than 30 seconds.

**SECTION 16: OTHER INFORMATIONS**

\* Each individual lighter is conform to ISO-9994:2002 or ISO/FDIS-2270.  
 \*This Safety Data Sheet gives informations concerning our product (I.e lighter). It shuld be pointed out that the produ is not a chemical products as per definition §3-11 of ISO11014-1, but only one part of it, is a chemical product. The lighter designed to bring a safety use of the dangerous chemical product, after carefull reading of the safety noti  
 However, this Safety Data Sheet has been written as if lighters were chemical products. Section 9 do not apply to tl lighter but to the chemical product confined hermetically in a reservoir equipped with a controled evaporation syste  
 \* The purpose of this Safety Data Sheet is to help the receiver with the use of this produc  
 This list of informations is not exhaustive and do not keep the receiver freedom making sure that other relevant obligatic might specifically be attributed to his concer



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