

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

### 1.1. Product identifier

Product form : Mixture  
Name : Gas lighter  
Trade name : Gas lighter  
EC Index-No. : 601-004-00-0  
EC-No. : 200-857-2  
CAS-No. : 75-28-5  
Product code : LIGH-002  
Formula : C4H10

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

#### Relevant identified uses

Main use category : Laboratory use

### 1.3. Details of the supplier of the safety data sheet

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt, SPAIN  
ES  
T +34 937 07 79 70, F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com), [www.labbox.com](http://www.labbox.com)

### 1.4. Emergency telephone number

Emergency number : +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable gases, Category 1 H220  
Gases under pressure  
Gases under pressure : Liquefied gas H280  
Full text of H and EUH statements: see section 16

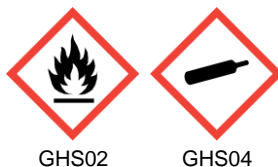
#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Signal word (CLP)	: Danger
Hazard statements (CLP)	: H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P103 - Read label before use. P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - Eliminate all ignition sources if safe to do so. P403 - Store in a well-ventilated place. P410+P403 - Protect from sunlight. Store in a well-ventilated place.

### 2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
isobutane	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0	50 – 54	Flam. Gas 1, H220 Press. Gas
propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5	25,5 – 27	Flam. Gas 1, H220 Press. Gas
butane	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0	21 – 22,5	Flam. Gas 1, H220 Press. Gas

Full text of H and EUH statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Induce vomiting if victim completely conscious/alert. Get medical advice/attention.

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

No additional information available

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

Never give anything by mouth to an unconscious person.

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Foam.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Wear recommended personal protective equipment. Use self-contained breathing apparatus and chemically protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk. Evacuate area.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

##### For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Consult an expert on waste disposal or treatment.

#### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Store at ambient temperature.  
Storage temperature : < 50 °C

##### Switzerland

Storage class (LK) : LK 2 - Liquefied or pressurized gases

#### 7.3. Specific end use(s)

Laboratory chemicals.

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL and PNEC

Gas lighter (75-28-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	13936 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	2476 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0,1 mg/l
PNEC aqua (marine water)	0,01 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,75 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	73 mg/l

#### 8.2. Exposure controls

##### Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protection equipment

###### Personal protective equipment:

EN 374.

###### Personal protective equipment symbol(s):



##### Eye and face protection

###### Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses			

##### Skin protection

###### Skin and body protection:

Chemical resistant safety shoes

Skin and body protection	
Type	Standard
Safety shoes	EN ISO 20344

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard

### Respiratory protection

#### Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

Respiratory protection			
Device	Filter type	Condition	Standard
filtering face piece			EN 14387

### Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Gas
Colour	: clear.
Odour	: strong.
Odour threshold	: Not available
Melting point	: -42,1 °C
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: No data available.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: -23 °C
Auto-ignition temperature	: > 470 °C
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 1,09
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not applicable
Relative density	: Not applicable
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

### 10.2. Chemical stability

Stable under normal conditions.

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Oxidizing agent. Acids. Aluminium. alkali metals.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Gas lighter (75-28-5)

ATE CLP (oral)	10 mg/kg bodyweight
ATE CLP (dermal)	8 mg/kg bodyweight

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

#### Gas lighter (75-28-5)

NOAEC (inhalation, rat, gas, 90 days)	50000 ppm Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
---------------------------------------	--

Aspiration hazard : Not applicable

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### Gas lighter (75-28-5)

LC50 - Fish [1]	24,11 mg/l
EC50 72h - Algae [1]	7,71 mg/l

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.2. Persistence and degradability

#### Gas lighter (75-28-5)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

#### isobutane (75-28-5)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

#### propane (74-98-6)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

#### butane (106-97-8)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

### 12.3. Bioaccumulative potential

#### Gas lighter (75-28-5)

Partition coefficient n-octanol/water (Log Pow)	1,09
---	------

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Gas lighter (75-28-5)

PBT: not relevant – no registration required

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Must follow special treatment according to local regulation.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR)	: UN 1057
UN-No. (IMDG)	: UN 1057
UN-No. (IATA)	: UN 1057
UN-No. (ADN)	: UN 1057
UN-No. (RID)	: UN 1057

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: LIGHTERS
Proper Shipping Name (IMDG)	: LIGHTERS

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Proper Shipping Name (IATA)	: Lighters
Proper Shipping Name (ADN)	: LIGHTERS
Proper Shipping Name (RID)	: LIGHTERS
Transport document description (ADR) (ADR)	: UN 1057 LIGHTERS, 2.1, (D)
Transport document description (IMDG)	: UN 1057 LIGHTERS, 2.1
Transport document description (IATA)	: UN 1057 Lighters, 2.1
Transport document description (ADN)	: UN 1057 LIGHTERS, 2.1
Transport document description (RID)	: UN 1057 LIGHTERS, 2.1

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 2.1
Danger labels (ADR)	: 2.1

:



#### IMDG

Transport hazard class(es) (IMDG)	: 2.1
Danger labels (IMDG)	: 2.1

:



#### IATA

Transport hazard class(es) (IATA)	: 2.1
Danger labels (IATA)	: 2.1

:



#### ADN

Transport hazard class(es) (ADN)	: 2.1
Danger labels (ADN)	: 2.1

:



#### RID

Transport hazard class(es) (RID)	: 2.1
Danger labels (RID)	: 2.1

:



### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable



# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 6F
Special provisions (ADR)	: 201, 654, 658
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P002
Special packing provisions (ADR)	: PP84, RR5
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

#### Transport by sea

Special provisions (IMDG)	: 201
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P002
Special packing provisions (IMDG)	: PP84
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Lighters or lighter refills containing butane or other flammable gas.

#### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 201
PCA max net quantity (IATA)	: 1kg
CAO packing instructions (IATA)	: 201
CAO max net quantity (IATA)	: 15kg
Special provisions (IATA)	: A802
ERG code (IATA)	: 10L

#### Inland waterway transport

Classification code (ADN)	: 6F
Special provisions (ADN)	: 201, 654, 658
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

#### Rail transport

Classification code (RID)	: 6F
Special provisions (RID)	: 201, 654, 658
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P002
Special packing provisions (RID)	: PP84, RR5
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Special provisions for carriage - Loading, unloading and handling (RID) : CW9  
Colis express (express parcels) (RID) : CE2  
Hazard identification number (RID) : 23

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

##### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### National regulations

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).  
Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

# Gas lighter

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Denmark

Class for fire hazard	: Add boilingpoint
Store unit	: Add boilingpoint
Classification remarks	: Add boilingpoint; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements:

Flam. Gas 1	Flammable gases, Category 1
Press. Gas	Gases under pressure
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.