

Gas in Gas Lighters

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

1.1 - Product identifier

Trade name/designation Gas in Gas Lighters

Chemical name

Product-type Mixture

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

Relevant identified uses - Gaseous mixture in lighter

1.3 - Details of the supplier of the safety data sheet

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1.4 - Emergency telephone number

- National Poisons Information Service of England: <http://npis.org> -
NHS 111: dial 111 United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

As the gas described in this document is included in a lighter, the assembly is considered to be an article within the meaning of regulation 1278/2008. As a result, the markings described in this section do not apply to the article (lighter).

Flam. Gas 1A	Flammable gas, Category 1A
Press. Gas (Comp.)	Compressed gas

2.2 - Label elements

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

Signal word : Danger

Hazard pictograms



Hazard statements

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

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P103	Read carefully and follow all instructions.
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.
EUH-phrases	: None

* Tactile warning (EN/ISO 11683).

Labelling (<= 125ml)

Signal word : Danger

Hazard pictograms



Hazard statements

H220	Extremely flammable gas.
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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
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.
EUH-phrases	: None

2.3 - Other hazards

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Specific concentration limit
butane	CAS No. : 106-97-8 Index No. : 601-004-00-0 EC No. : 203-448-7	< 55	Flam. Gas 1A - H220 Press. Gas	Not applicable
propane	CAS No. : 74-98-6 Index No. : 601-003-00-5 EC No. : 200-827-9	> 45 - < 50	Flam. Gas 1A - H220 Press. Gas	Not applicable

SECTION 4: First aid measures

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4.1 - Description of first aid measures

- Following inhalation - Provide fresh air.
- Following skin contact - No information available.
- After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.

4.2 - Most important symptoms and effects, both acute and delayed

- Symptoms and effects - Following inhalation - No information available.
- Symptoms and effects - Following skin contact - No data available.
- Symptoms and effects - After eye contact - No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- No information available.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

- Suitable extinguishing media - Carbon dioxide (CO2)
- Unsuitable extinguishing media - Strong water jet

5.2 - Special hazards arising from the substance or mixture

- Special hazards arising from the substance or mixture - No data available.
- Hazardous decomposition products - No data available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel - Use personal protection equipment.
- Provide adequate ventilation.
- For emergency responders - Provide adequate ventilation.
- Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.
- Use personal protection equipment.
- Use appropriate respiratory protection.

6.2 - Environmental precautions

- No information available.

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6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up - Ventilate affected area.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Disposal: See section 13
- Personal protection equipment: see section 8
- Safe handling: See section 7

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation - No information available.

Advices on general occupational hygiene - No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Ensure adequate ventilation of the storage area.
- Keep/store only in original container.

7.3 - Specific end use(s)

- Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

- No data available.

8.2 - Exposure controls

Appropriate engineering controls - No information available.

Individual protection measures, such as personal protective equipment - Lab coat.

- If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls - No data available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

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<u>Physical state</u>	<u>gaseous</u>	<u>Appearance</u>	<u>Compressed gas</u>
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		< 21 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

- No data available.

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

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10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Stable under recommended storage and handling conditions.

10.5 - Incompatible materials

- No data available.

10.6 - Hazardous decomposition products

- No data available.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation gas (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No data available.

Skin corrosion/irritation - Not classified

- No data available.

Serious eye damage/eye irritation - Not classified

- No data available.

Respiratory or skin sensitisation - Not classified

- No data available.

Germ cell mutagenicity - Not classified

- No data available.

Carcinogenicity - Not classified

- No data available.

Reproductive toxicity - Not classified

- No data available.

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STOT-single exposure - Not classified

- No data available.

STOT-repeated exposure - Not classified

- No data available.

Aspiration hazard - Not classified

- Not applicable

11.2 - Information on other hazards

- No information available.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- No data available.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No data available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No data available.

12.4 - Mobility in soil

- No data available.

12.5 - Results of PBT and vPvB assessment

12.6 - Endocrine disrupting properties

- No information available.

12.7 - Other adverse effects

- No data available.

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SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- No information available.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1057
<u>UN number (RID)</u>	:	UN1057
<u>UN number (ADN)</u>	:	UN1057
<u>UN number (IMDG)</u>	:	UN1057
<u>UN number (IATA)</u>	:	UN1057

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	LIGHTERS (propane, butane)
<u>UN proper shipping name (RID)</u>	:	LIGHTERS (propane, butane)
<u>UN proper shipping name (ADN)</u>	:	LIGHTERS (propane, butane)
<u>UN proper shipping name (IMDG)</u>	:	LIGHTERS (propane, butane)
<u>UN proper shipping name (IATA)</u>	:	LIGHTERS (propane, butane)

14.3 - Transport hazard class(es)

<u>ADR Transport hazard class(es)</u>	:	2
<u>ADR Classification code:</u>	:	6F
<u>Pictograms</u>		



<u>Transport hazard class(es) (RID)</u>	:	2
<u>Pictograms</u>		



<u>Transport hazard class(es) (ADN)</u>	:	2
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Pictograms



Transport hazard class(es) : 2
(IMDG)

Pictograms



Transport hazard class(es) : 2
(IATA)

Pictograms



14.4 - Packing group

Packing group :
Packing group (RID) :
Packing group (ADN) :
Packing group (IMDG) :
Packing group (IATA) :

14.5 - Environmental hazards

Environmental hazards : No
Marine pollutant : No

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	6F
<u>ADR Special provisions</u>	:	201+654+658
<u>ADR Limited quantity (LQ)</u>	:	0
<u>ADR Excepted quantities</u>	:	E0
<u>ADR Packing instructions</u>	:	P002
<u>ADR Special packing provisions</u>	:	PP84 RR5
<u>ADR Mixed packing provisions</u>	:	MP9
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>ADR tank code</u>	:	
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	D
<u>ADR Special provisions loading, unloading and handling</u>	:	CV9
<u>Special provisions - Packages</u>	:	
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

ADN

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	201
<u>Limited quantity (LQ)</u>	:	0
<u>Excepted quantities</u>	:	E0
<u>Packing instructions</u>	:	P002
<u>Special packing provisions</u>	:	PP84
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	F-D, S-U
<u>Stowage and handling</u>	:	Category B SW2
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	Lighters or lighter refills containing butane or other flammable gas.

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IATA

<u>PCA - Excepted quantities</u>	:	E0
<u>PCA - Limited Quantity - Packing Instructions</u>	:	Forbidden
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	Forbidden
<u>PCA - Packing Instructions</u>	:	201
<u>PCA - Maximum Net Quantity per Package</u>	:	1kg
<u>CAO - Packing Instructions</u>	:	201
<u>CAO - Maximum Net Quantity per Package</u>	:	15kg
<u>Special Provisions</u>	:	A802
<u>ERG Code</u>	:	10L

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

<u>Substances REACH candidates</u>	None
<u>Substances Annex XIV</u>	None
<u>Substances Annex XVII</u>	None

VOC content No data available

15.2 - Chemical Safety Assessment

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1	12/01/2026		

Abbreviations and acronyms

- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- LC50: Lethal Concentration to 50 % of a test animals.
- LOEC: Lowest Observed Effect Concentration.
- LD50: Lethal Dose to 50% of a test animals.
- LOEL: Lowest Observed Adverse Effect Level.
- DNEL: Derived no-effect level.
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods.
- EC No: European Community number
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- CAS No.: Chemical Abstracts Service number.
- ICAO: International Civil Aviation Organization
- PBT: Persistent, Bioaccumulative and Toxic.
- PNEC: Predicted no-effect concentration.

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- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- TWA: Time weighted average
- OEL: Occupational exposure limit.
- vPvB: very Persistent and very Bioaccumulative.

Texts of the regulatory sentences

Flam. Gas 1A	Flammable gas, Category 1A
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Compressed gas

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