

# Safety Data Sheet

## According to Regulation (EC) No 1907/2006

gas lighter

Version 1.0

Issue date: 10/11/2014

Revision date: 10/11/2014

SDS Record Number: CSSS-TCO-010-115729

### Section 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Identification on the label/Trade name: gas lighter  
Additional identification: Not available  
Identification of the product: See section 3  
Index Number: Not available  
REACH pre-registration No.: Not available

#### 1.2 Relevant identified uses of the substance and uses advised against:

##### 1.2.1 Identified uses:

Ignition.

##### 1.2.2 Uses advised against:

Not available.

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

Supplier(Only representative): -  
Supplier(Manufacturer): Ningbo Xinhai International Trade Co., Ltd  
Address: Industry Zone, Chongshou Town, Cixi, Ningbo, Zhejiang P.R. China  
Contact person(E-mail): kevin@xinhaigroup.com  
Telephone: +86-57463029638  
Fax: +86-57463023077

#### 1.4 Emergency telephone Number:

+86-57463029638

Available outside office hours? YES  NO

### Section 2 Hazards Identification

#### 2.1 Classification of the substance/mixture:

##### 2.1.1 Classification:

The mixture is classified as following according to 1999/45/EC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categorie	Hazard statement
Flam. Gas 1	H220
Press.Gas	H280

For full text of H- phrases: see section 2.2.

1999/45/EC	
Hazards characteristics	R-Phrases
F+	R12

For full text of R- phrases: see section 16.

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## 2.2 label elements:

### Hazard Pictograms:



### Signal Word(S):

Danger

### Hazard Statement:

H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

### Precautionary statement:

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:

Not applicable.

## Section 3 Composition/information on ingredients

### Substance/Mixture:

Mixture

### Ingredient(s):

Chemical Name	Pre-Registration No.	CAS No.	EC No.	Concentration
N-Butane	-	106-97-8	203-448-7	89.87%
Propane	-	74-98-6	200-827-9	10.13%

## Section 4 First aid measures

### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.1 In case of inhalation:

Remove to fresh air. Keep warm and calm. Consult a doctor, if symptoms persist.

#### 4.1.2 In case of skin contact:

Take off contaminated clothes. Wash frost-bitten areas with plenty of water. Remove contaminated clothing, if it is possible. Do not remove clothing if it adheres constantly to the skin. Get warm frost-bitten areas slowly. Cover wound with sterile dressing.

Do not use ointments or powders.

#### 4.1.3 In case of eyes contact:

Wash out with plenty of water with the eyelid hold wide open for 10-15 min. Remove any contact lenses. Use sterile dressing. Seek medical advice.

#### 4.1.4 In case of ingestion:

Wash out mouth with water. Drink plenty of water.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

## Section 5 Fire-Fighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** Water spray, foam, dry chemical, carbon dioxide.

**Unsuitable extinguishing media:** Water jet.

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

In case of fire, the following can be released: Carbon monoxide.

### 5.3 Special fire fighting methods and special protective actions for fire-fighters:

Personal protection typical in case of fire. Wear suitable respiratory equipment and protected clothes. Product is extremely flammable. It forms explosive mixtures with air. Gas is heavier than air and can accumulate in the lower sections of enclosed spaces. It displaces oxygen from the air. Cool down containers with water to prevent bursting.

## Section 6 Accidental release measures

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

**6.1.1 For non-emergency personnel:** Use proper personal protective equipment as indicated in Section 8. Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Do not use any open flame. No smoking. Take precautionary measures against static discharges. Avoid contact with skin and eyes.

**6.1.2 For emergency responders:** Ensure that removing the problem and its results is conducted by a trained personnel only. Wear chemical resistant safety clothing.

### 6.2 Environmental Precautions:

Do not empty into drains (danger of explosion). Notify relevant emergency services.

### 6.3 Methods for Containment and Cleaning up:

Small spillage: Let the gas evaporate and ventilate well.

Large spillage: Eliminate a source of gas if it is possible. Disperse the gas by water mist or safety curtain.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### 6.5 Additional information:

Not applicable.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling:

**7.1.1 Protective measures:** Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Do not pierce or bum, even after use. Ensure adequate ventilation of area, where the product is used. Protect from sources of ignition - do not smoke during filling. Gas can form explosive mixtures with air.

**7.1.2 Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep container tightly closed, in dry, cool and well-ventilated place. Keep away from sources of ignition. Protect from temperature above 50°C. Avoid direct expose to sunlight. Keep away from food, beverages or feed for animals. Do not smoke, use open flame and sparking tools.

### 7.3 Specific end use(s):

Ignition.

## Section 8 Exposure Controls/Personal Protection

## 8.1 Control parameters:

### 8.1.1 Occupational exposure limits:

Country	BUTANE	PROPANE
Germany	MAK: 1900 mg/m <sup>3</sup>	MAK: 1800 mg/m <sup>3</sup>
Italy	TWA; 1900 mg/ m <sup>3</sup>	TWA;4508 mg/m <sup>3</sup>
France	VME: 1900 mg/ m <sup>3</sup>	VME: 1800 mg/m <sup>3</sup>
Hungary	AK: 2350 mg/ m <sup>3</sup> , CK: 9400 mg/ m <sup>3</sup>	-
Spain	TLV TWA 1900 mg/m <sup>3</sup>	-
UK	WEL: 1450 mg/m <sup>3</sup>	-

**8.1.2 Additional exposure limits under the conditions of use:** Not available.

**8.1.3 DNEL/DMEL and PNEC-Values:** Not available.

## 8.2 Exposure controls:

**8.2.1 Appropriate engineering controls:** Use the product in accordance with good occupational hygiene and safety practices. When handling do not eat, drink or smoke. Before break and after work carefully wash hands. Ensure adequate ventilation. Avoid contact liquid gas with skin and eyes.

### 8.2.2 Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Use protective glasses if there is a risk of spraying liquid gas.

**Hand protection:** Use protective gloves from neoprene or nitrile rubber.

**Body protection:** Wear normal working clothing.

**Respiratory protection:** Normal not required. If concentration of oxygen is lower than 17% or max. Concentration of gas in air is more than 1% use self-contained breathing apparatus.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

**8.2.3 Environmental exposure controls:** Gas evaporates very quickly. It doesn't cause contamination of environment.

## Section 9 Physical and chemical properties

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

<b>Appearance:</b>	Liquefied gas
<b>Colour:</b>	Colorless
<b>Odour:</b>	Characteristic, weak
<b>Odour threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/range (°C):</b>	Not available
<b>Boiling point/range (°C):</b>	-42 - 0°C
<b>Flash point (°C):</b>	Ca. -80°C
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (solid, gas):</b>	Extremely flammable
<b>Ignition temperature (°C):</b>	Not available
<b>Upper/lower flammability/explosive limits:</b>	10.9% vol. / 1.5% vol.
<b>Vapour pressure (20°C):</b>	1200-7500 hpa
<b>Vapour density:</b>	Not available
<b>Relative Density:</b>	0.5-0.58 g/cm <sup>3</sup>
<b>Bulk density (kg/m<sup>3</sup>):</b>	Not available

<b>Water solubility (g/l):</b>	<0.1g/l
<b>n-Octanol/Water (log Po/w):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity, dynamic (mPa.s):</b>	Not available
<b>Explosive properties:</b>	It forms explosive mixture with air
<b>Oxidising properties:</b>	Not available
<b>Molecular Formula:</b>	Not applicable
<b>Molecular Weight:</b>	Not applicable

## 9.2. Other information:

<b>Fat solubility(solvent– oil to be specified) etc:</b>	Not available
<b>Surface tension:</b>	Not available
<b>Dissociation constant in water( pKa):</b>	Not available
<b>Oxidation-reduction Potential:</b>	Not available
<b>Specific gravity:</b>	Not available

## Section 10 Stability and reactivity

<b>10.1 Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>10.2 Chemical stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Gas forms explosive mixture with air
<b>10.4 Conditions to avoid:</b>	Incompatible materials. Avoid direct sunlight, source of ignition, temperature above 5°C and static discharges.
<b>10.5 Incompatible materials:</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products:</b>	Carbon monoxide.

## Section 11 Toxicological information

### 11.1 Toxicokinetics, metabolism and distribution:

<b>Non-human toxicological data:</b>	Not available
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### 11.2 Information on toxicological effects:

**Acute toxicity:** N-Butane (CAS 106-97-8)

<b>LD50(Oral, Rat):</b>	Not available
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<b>LD50(Dermal, Rabbit):</b>	Not available
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<b>LC50(Inhalation, Rat):</b>	1237 mg/L
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<b>Skin corrosion/Irritation:</b>	Not classified
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<b>Serious eye damage/irritation:</b>	Not classified
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<b>Respiratory or skin sensitization:</b>	Not classified
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<b>Germ cell mutagenicity:</b>	Not classified
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<b>Carcinogenicity:</b>	Not classified
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<b>Reproductive toxicity:</b>	Not classified
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<b>STOT- single exposure:</b>	Not classified
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<b>STOT-repeated exposure:</b>	Not classified
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Aspiration hazard:

Not classified

## Section 12 Ecological information

### Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
LC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:**

It oxidizes very quickly in air (photochemical reaction).

**Bioaccumulative potential:**

Does not accumulate in environment.

**Mobility in soil:**

Product evaporates very quickly from soil and water. It dispersed in air.

**Results of PBT&vPvB assessment:**

Not applicable.

**Other adverse effects:**

This product has no influence on the global warming or the ozone layer depletion.

## Section 13 Disposal considerations

**13.1 Waste treatment methods:**

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

**13.2 Product / Packaging disposal:**

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

## Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	1057	1057	1057
UN Proper shipping name	LIGHTERS or LIGHTER REFILLS containing flammable gas	LIGHTERS or LIGHTER REFILLS containing flammable gas	LIGHTERS or LIGHTER REFILLS containing flammable gas
Transport hazard Class	2.1	2.1	2.1
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

## Section 15 Regulation information

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

**Relevant information regarding authorization:**

Not applicable.

**Relevant information regarding restriction:**

Not applicable.

**Other EU regulations:**

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

**Other National regulations:**

Not applicable

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Chemical Safety Assessment has been carried out?

YES

NO

## Section 16 Other information

### 16.1 Indication of changes:

Version 1.0 Amended by EU No 453/2010

### 16.2 Relevant R- phrases (number and full text):

R12: Extremely flammable.

### 16.3 Training instructions:

Not applicable.

### 16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### 16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.