



**BUREAU  
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION

**WENZHOU HONGBANG ELECTRONIC CO.,LTD**

**Technical Report: (2417)307-0008**  
Date Received: NOV.03, 2017

NOV.07, 2017  
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RITA LIU  
WENZHOU HONGBANG ELECTRONIC CO.,LTD  
261#,XIAFANG ROAD,OUHAI DISTRICT,WENZHOU CITY,  
ZHEJIANG,CHINA

**SAMPLE INFORMATION:**

<b>Sample Description:</b>	BUTANE LIGHTER	<b>Sample Size:</b>	N/A
<b>Vendor:</b>	N/A	<b>Style No(s):</b>	N/A
<b>Manufacturer:</b>	N/A	<b>SKN/SKU No.:</b>	N/A
<b>Buyer:</b>	N/A	<b>PO No.:</b>	N/A
<b>Labeled Age Grade:</b>	N/A	<b>Ref #:</b>	N/A
<b>Appropriate Age Grade:</b>	N/A	<b>Country of Origin:</b>	N/A
<b>Client Specified Age Grade:</b>	N/A	<b>Assortment No.:</b>	N/A
<b>Tested Age Grade:</b>	N/A	<b>Country of Destination:</b>	N/A
<b>UPC Code:</b>	N/A	<b>Color:</b>	N/A

**EXECUTIVE SUMMARY:**

<b>TEST REQUESTED</b>	<b>CONCLUSION</b>
The submitted sample was evaluated to MSDS(Material Safety Data Sheet) and the data provided is for information purpose only.(DATA)	DATA

**BVCPS (NINGBO) GENERAL CONTACT INFORMATION FOR THIS REPORT**

TELEPHONE NO. : 86-574-87091230 / 87091226  
E-MAIL : [Anne.xue@cn.bureauveritas.com](mailto:Anne.xue@cn.bureauveritas.com)  
[/Jade.zhu@cn.bureauveritas.com](mailto:/Jade.zhu@cn.bureauveritas.com)

**BUREAU VERITAS  
CONSUMER PRODUCTS SERVICE DIVISION (SHANGHAI) NINGBO  
BRANCH**

LISA SU  
LAB MANAGER(HARDLINE AND TOY DIVISION)

# Safety Data Sheet

## according to WHS Regulations

Printing date 07.11.2017

07.11.2017

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Trade name:** *Butane Lighter*
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**  
*Kitchen accessories, Coal gas oven sparking, Cook a meal and barbecue in the open.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Company: Wenzhou Hongbang Electronic Co., Ltd*  
*Address: 261, Xiafang Road, Ouhai District, Wenzhou City, Zhejiang, China*  
*Post code: 325015*  
*Tel: +86-577-89601226, +86-15067838956*  
*Fax: +86-577-89601227*  
*Email: sales@gas-lighters.com*
- **Emergency telephone number:** +86-15067838956

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



flame

Flam. Gas 1 H220 Extremely flammable gas.



health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*butane (containing  $\geq 0,1\%$  butadiene (203-450-8))*  
*isobutane (containing  $\geq 0,1\%$  butadiene (203-450-8))*
- **Hazard statements**  
*H220 Extremely flammable gas.*  
*H340 May cause genetic defects.*  
*H350 May cause cancer.*
- **Precautionary statements**  
*P101 If medical advice is needed, have product container or label at hand.*  
*P102 Keep out of reach of children.*  
*P103 Read label before use.*  
*P201 Obtain special instructions before use.*  
*P202 Do not handle until all safety precautions have been read and understood.*  
*P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.*

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## Safety Data Sheet according to WHS Regulations

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**Trade name: Butane Lighter**

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- P281 Use personal protective equipment as required.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- 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.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· <b>Dangerous components:</b>		
106-97-8	butane (containing $\geq 0,1\%$ butadiene (203-450-8)) ⚠ Flam. Gas 1, H220; ⚠ Muta. 1B, H340; Carc. 1A, H350; Press. Gas C, H280	45.0%
75-28-5	isobutane (containing $\geq 0,1\%$ butadiene (203-450-8)) ⚠ Flam. Gas 1, H220; ⚠ Muta. 1B, H340; Carc. 1A, H350; Press. Gas C, H280	38.0%
74-98-6	propane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	17.0%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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 disposal information.

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## Safety Data Sheet according to WHS Regulations

Printing date 07.11.2017

07.11.2017

Trade name: **Butane Lighter**

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### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

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# Safety Data Sheet

## according to WHS Regulations

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Trade name: *Butane Lighter*

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### 9 Physical and Chemical Properties

· <b>Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
<b>Form:</b>	Gaseous
<b>Colour:</b>	Colourless
· <b>Odour:</b>	Slight unpleasant odour
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition:</b>	
<b>Melting point/freezing point:</b>	-138 °C
<b>Initial boiling point and boiling range:</b>	Undetermined.
· <b>Flash point:</b>	Not determined.
· <b>Flammability (solid, gas):</b>	Not determined.
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Not determined.
· <b>Explosion limits:</b>	
<b>Lower:</b>	8.5 Vol %
<b>Upper:</b>	1.9 Vol %
· <b>Vapour pressure at 20 °C:</b>	213.7 MPa
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	0.5788 g/cm <sup>3</sup>
· <b>Vapour density</b>	2.1 g/ml
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.

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# Safety Data Sheet

## according to WHS Regulations

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**Trade name: Butane Lighter**

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- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
The product can cause inheritable damage.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Muta. 1B, Carc. 1A





### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	<p>UN1057</p>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>1057 LIGHTERS LIGHTERS</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG</b></li> </ul>	<p>2 Gases.</p>
<div style="display: flex; align-items: center;">   </div>	<p>2.3+2.1</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	<p>2 Gases.</p>
<div style="display: flex; align-items: center;">   </div>	<p>2 Gases.</p>

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## Safety Data Sheet


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Trade name: *Butane Lighter*

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· <b>Label</b>	2.3/2.1
· <b>IATA</b>	
	
· <b>Class</b>	2 Gases.
· <b>Label</b>	2.3 (2.1)
· <b>Packing group</b>	
· <b>ADG, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Gases.
· <b>EMS Number:</b>	F-D,S-U
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	0
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	0
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1057 LIGHTERS, 2.3 (2.1)

### 15 Regulatory information

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

· <b>Australian Inventory of Chemical Substances</b>
74-98-6 propane
· <b>Standard for the Uniform Scheduling of Medicines and Poisons</b>
None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P2** FLAMMABLE GASES

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**  
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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# Safety Data Sheet

## according to WHS Regulations

Printing date 07.11.2017

07.11.2017

Trade name: **Butane Lighter**

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### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

*This safety data sheet (2417)307-0008 is prepared upon applicant Wenzhou Hongbang Electronic Co., Ltd's request. However, no SDS of ingredients was provided by the applicant. And no further testing data provided. Therefore, this document is compiled in accordance with what we obtained.*

· **Relevant phrases**

*H220 Extremely flammable gas.*

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

*H340 May cause genetic defects.*

*H350 May cause cancer.*

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Gas 1: Flammable gases – Category 1*

*Press. Gas C: Gases under pressure – Compressed gas*

*Muta. 1B: Germ cell mutagenicity – Category 1B*

*Carc. 1A: Carcinogenicity – Category 1A*



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 07.11.2017

07.11.2017

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

- **1.1 Product identifier**
- **Trade name: *Butane Lighter***
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**  
*Kitchen accessories, Coal gas oven sparking, Cook a meal and barbecue in the open.*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Company: Wenzhou Hongbang Electronic Co., Ltd*  
*Address: 261, Xiafang Road, Ouhai District, Wenzhou City, Zhejiang, China*  
*Post code: 325015*  
*Tel: +86-577-89601226, +86-15067838956*  
*Fax: +86-577-89601227*  
*Email: sales@gas-lighters.com*
- **1.4 Emergency telephone number: +86-15067838956**

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008.**



GHS02 flame

*Flam. Gas 1 H220 Extremely flammable gas.*



GHS08 health hazard

*Muta. 1B H340 May cause genetic defects.*  
*Carc. 1A H350 May cause cancer.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*
- **Hazard pictograms**



GHS02



GHS08

- **Signal word *Danger***
- **Hazard-determining components of labelling:**  
*butane (containing  $\geq 0,1\%$  butadiene (203-450-8))*  
*isobutane (containing  $\geq 0,1\%$  butadiene (203-450-8))*
- **Hazard statements**  
*H220 Extremely flammable gas.*  
*H340 May cause genetic defects.*  
*H350 May cause cancer.*
- **Precautionary statements**  
*P101 If medical advice is needed, have product container or label at hand.*  
*P102 Keep out of reach of children.*  
*P103 Read label before use.*  
*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*  
*P280 Wear protective gloves/protective clothing/eye protection/face protection.*  
*P308+P313 IF exposed or concerned: Get medical advice/attention.*  
*P403 Store in a well-ventilated place.*

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.11.2017

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**Trade name: Butane Lighter**

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P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

17 % of the mixture consists of component(s) of unknown toxicity.

**2.3 Other hazards****Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**• **Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-01-8	butane (containing $\geq 0,1\%$ butadiene (203-450-8)) Flam. Gas 1, H220; Muta. 1B, H340; Carc. 1A, H350; Press. Gas (Comp.), H280	45.0%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane (containing $\geq 0,1\%$ butadiene (203-450-8)) Flam. Gas 1, H220; Flam. Liq. 1, H224; Muta. 1B, H340; Carc. 1A, H350; Press. Gas (Comp.), H280	38.0%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	17.0%

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**• **After inhalation:** Supply fresh air; consult doctor in case of complaints.• **After skin contact:** Generally the product does not irritate the skin.• **After eye contact:** Rinse opened eye for several minutes under running water.• **After swallowing:** If symptoms persist consult doctor.• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.• **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media**• **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.• **5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters**• **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**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 disposal information.

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.11.2017

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Trade name: *Butane Lighter*

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
*Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.  
 Keep respiratory protective device available.*
- **7.2 Conditions for safe storage, including any incompatibilities**  
**Storage:**  
  - **Requirements to be met by storerooms and receptacles:** *No special requirements.*
  - **Information about storage in one common storage facility:** *Not required.*
  - **Further information about storage conditions:** *Keep container tightly sealed.*
- **7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **Additional information:** *The lists valid during the making were used as basis.*

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*Keep away from foodstuffs, beverages and feed.  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.*
- **Respiratory protection:**



*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

- **Protection of hands:**



*Protective gloves*

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

- **Material of gloves**  
*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

- **Penetration time of glove material**  
*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:**



*Tightly sealed goggles*

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.11.2017

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Trade name: *Butane Lighter*

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## SECTION 9: Physical and chemical properties

· <b>9.1 Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
Form:	Gaseous
Colour:	Colourless
· <b>Odour:</b>	Slight unpleasant odour
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition:</b>	
Melting point/freezing point:	-138 °C
Initial boiling point and boiling range:	Undetermined.
· <b>Flash point:</b>	Not determined.
· <b>Flammability (solid, gas):</b>	Not determined.
· <b>Ignition temperature:</b>	
Decomposition temperature:	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Not determined.
· <b>Explosion limits:</b>	
Lower:	8.5 Vol %
Upper:	1.9 Vol %
· <b>Vapour pressure at 20 °C:</b>	213.7 MPa
· <b>Density:</b>	Not determined.
· <b>Relative density at 20 °C</b>	0.5788 g/cm <sup>3</sup>
· <b>Vapour density</b>	2.1 g/ml
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
May cause genetic defects.
- **Carcinogenicity**  
May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.



### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1057
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	1057 LIGHTERS LIGHTERS
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	
<div style="display: flex; align-items: center; gap: 20px;">   </div>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2 Gases. 2.3+2.1

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· <b>IMDG</b>	
· <b>Class</b>	2 Gases.
· <b>Label</b>	2.3/2.1
· <b>IATA</b>	
· <b>Class</b>	2 Gases.
· <b>Label</b>	2.3 (2.1)
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Gases.
· <b>EMS Number:</b>	F-D,S-U
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	0
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	0
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1057 LIGHTERS, 2.3 (2.1)

### SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P2** FLAMMABLE GASES

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 28, 29

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**  
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

*This safety data sheet (2417)307-0008 is prepared upon applicant Wenzhou Hongbang Electronic Co., Ltd's request. However, no SDS of ingredients was provided by the applicant. And no further testing data provided. Therefore, this document is compiled in accordance with what we obtained.*

- **Relevant phrases**

*H220 Extremely flammable gas.*

*H224 Extremely flammable liquid and vapour.*

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

*H340 May cause genetic defects.*

*H350 May cause cancer.*

- **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Gas 1: Flammable gases – Category 1*

*Press. Gas (Comp.): Gases under pressure – Compressed gas*

*Flam. Liq. 1: Flammable liquids – Category 1*

*Muta. 1B: Germ cell mutagenicity – Category 1B*

*Carc. 1A: Carcinogenicity – Category 1A*