



Material Safety Data Sheet

LIGHTER
MSDS NO.: AJT120503007E

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lighter
Product Use: Lighter for kitchen and barbecue

Supplier Information

Company Name: WENZHOU NATIVE PRODUCE & ANIMAL BY-PRODUCTS FOREIGN TRADE CORP
Address: ROOM 1609 GUOMAO CENTER, NO. 8 WEST LIMING ROAD, WENZHOU CITY, ZHEJIANG PROVINCE, CHINA 325003
Tel: 86-577-88866595
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Emergency Overview: CONTENT FLAMMABLE COMPRESSED GAS
EXTREMELY FLAMMABLE.

3. HAZARDS IDENTIFICATION

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS NO.	EC NO.	RISK PHRASES
Thermoplastic casing with Liquefied butane gas	~100%	106-97-8	203-448-7	F+; R12

Note:

- 1: Ingredients are classified in according to the Annex I of Directive 67/548/EEC.
- 2: Contains no other components or impurities, which will influence the classification of the product.
- 3: See Section 8 of MSDS for exposure limit data for these ingredients. Full text of risk phrases appearing in section 3: see section 16.

4. FIRST AID MEASURES

SKIN and EYES: For liquid spillage - flush with water for at least 15 minutes.

INHALATION: In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Remove victim to uncontaminated area



Material Safety Data Sheet

LIGHTER
MSDS NO.: AJT120503007E

wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

INGESTION: Ingestion is not considered a potential route of exposure.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable class: Extremely flammable.

Specific hazards: Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products: Incomplete combustion may form carbon monoxide.

Extinguishing media

- **Suitable extinguishing MEDIA:** All known extinguish agents can be used.

Specific METHODS: If possible, stop flow of product. Move away from the container and cool with water from a protected position. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/ explosive re-ignition may occur. Extinguish any other fire.

Special protective equipment for fire FIGHTERS: In confined space use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources.

ENVIRONMENTAL PRECAUTIONS: Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.

CLEAN UP METHODS: Ventilate area.

7. HANDLING AND STORAGE

HANDLING: Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Do not puncture or incinerate container. High-pressure gas. Protect container from physical damage.

STORING: Segregate from oxidant gases and other oxidants in store. Keep container below 50°C in a well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES

Ingredients Name	OEL
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Material Safety Data Sheet

LIGHTER
MSDS NO.: AJT120503007E

Butane (cas: 106-97-8)	TLV© -TWA [ppm]: 800 OEL (UK)-LTEL [ppm]: 600 OEL (UK)-STEL [ppm]: 750 VME - France [ppm]: 800 MAK - Germany [ppm]: 1000
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PERSONAL PROTECTION

Ensure adequate ventilation.

Do not smoke while handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquefied gas.
Color:	Colorless gas.
Odor:	Sweetish. Poor warning properties at low concentrations.
Vapour Pressure, 20°C:	2 bar
PH:	Not applicable
Relative density, gas (air=1):	2.1
Relative density, liquid (water=1):	0.6
Ignition temperature:	365
Explosion limits:	Lower: 1.5 Upper: 8.5
Boiling Point:	-0.5
Flash Point:	Not applicable
Melting point:	-138
Solubility in water [mg/l]:	88
Viscosity:	Not available
Other data:	Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: Can form explosive mixture with air.

INCOMPATIBLE MATERIALS: Extremely reactive or incompatible with oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data

Toxicity data available for this product:



Material Safety Data Sheet

LIGHTER
MSDS NO.: AJT120503007E

Butane (cas: 106-97-8)	RTECS#: EJ4200000 Inhalation, mouse: LC50 = 680000 mg/m3/2H; Inhalation, rat: LC50 = 658000 mg/m3/4H;
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CHRONIC EFFECTS ON HUMANS: Causes damage to the following organs: central nervous system (CNS).

OTHER TOXIC EFFECTS ON HUMANS: No specific information is available in our database regarding the other toxic effects of this material for humans.

SPECIFIC EFFECTS

CARCINOGENIC EFFECTS No known significant effects or critical hazards.

MUTAGENIC EFFECTS No known significant effects or critical hazards.

REPRODUCTION TOXICITY No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

PRODUCTS OF DEGRADATION: These products are carbon oxides (CO, CO₂)

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: The product itself and its products of degradation are not toxic.

ENVIRONMENTAL FATE: Not available.


ENVIRONMENTAL HAZARDS: No known significant effects or critical hazards.

TOXICITY TO THE ENVIRONMENT: Not available.

13. DISPOSAL CONSIDERATIONS






Waste Disposal Method: Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.

14. TRANSPORT INFORMATION

Regulatory Information	UN No.	Proper Shipping Name	Class	Packing Group	Label
DOT Class	UN1057	LIGHTERS containing flammable gas	2.1	Not applicable (gas).	

Material Safety Data Sheet

LIGHTER
MSDS NO.: AJT120503007E

TDG Class	UN1057	LIGHTERS containing flammable gas	2.1	Not applicable (gas).	
ADR/RID Class	UN1057	LIGHTERS containing flammable gas	2.1	Not applicable (gas).	
IMDG Class	UN1057	LIGHTERS containing flammable gas	2.1	Not applicable (gas).	
IATA-DGR Class	UN1057	LIGHTERS containing flammable gas	2.1	Not applicable (gas).	
ADG Class	UN1057	LIGHTERS containing flammable gas	2.1	Not applicable (gas).	

15. REGULATORY INFORMATION

EC Classification: F+; R12

EC Labeling



- **Symbol(s):** F+: Extremely flammable
- **R Phrase(s):** R12: Extremely flammable.



Material Safety Data Sheet

LIGHTER
MSDS NO.: AJT120503007E

- **S Phrase(s):** S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.

16. OTHER INFORMATION

Risk phrases in section 3:

R12 Extremely flammable.

Issue Date: May 3, 2012

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

* * * END OF MSDS * * *