



## 1. Identification of the substance/mixture and supplier

<b>Product Name</b>	GAS REFILL
<b>Other names</b>	Aerosol Neon 15-300ml Butane Gas Lighter Fluid
<b>Recommended Uses</b>	Gas lighter fuel
<b>Manufacturer Name</b>	Zhuoye Lighter Manufacturing Company Limited
<b>Manufacturer Street address</b>	Zhaoqing, Guangdong, China
<b>Distributor in New Zealand</b>	Amalgamated Hardware Merchants Limited
<b>Distributor Address</b>	8 Hautu Drive, Wiri, Auckland
<b>Telephone Number</b>	09 251-1310
<b>Facsimile</b>	09 251-1311
<b>Emergency Telephone</b>	111

## 2. Hazards Identification

<b>Dangerous Goods</b>	<div>Classified as a Dangerous Good</div> 
<b>HSNO Classification Numbers</b>	2.1.Flammable Gases (Category 1)
<b>Hazard Statements</b>	Ingredients are below the levels to cause the product to be classified
<b>Precautionary Statements</b>	<div>Danger</div> 

## 3. Composition/Information on Ingredients

<b>Contents</b>	<b>CAS Number</b>	<b>Proportion</b>
Butane	106-97-8	99%
<b>Composition Comments</b>	Substances indicating a hazard do so under EC Directive 858/379 & 67/548. Aerosol classified as Flammable	

## 4. First-Aid Measures

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor. Ensure you have the product container or label at hand.	

<b>General:</b>	Note! Keep affected person away from heat, sparks and flames!
<b>Eye Contact:</b>	Promptly wash eyes with water while lifting the eyelids. Get medical attention immediately. Continue to rinse. Burns should be flushed with water to normalise temperature. Cover eyes with sterile dressing. Do NOT apply ointments or powder.
<b>Skin Contact:</b>	Remove affected person from source of contamination. Promptly stop exposure and get medical attention if frostbit has occurred. Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

<b>Inhalation:</b>	Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
<b>Ingestion:</b>	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. DO NOT induce vomiting. Get medical attention immediately.

## 5. Fire-Fighting Measures

<b>Suitable Extinguishing Media</b>	Stop flow of material to fire. Fire can be extinguished using foam, dry chemicals, and sand/dolomite, etc.
<b>Fire-fighting advice</b>	Use water to keep fire exposed cool and disperse vapours. Cool containers exposed to flames with water from side until well after fire is out. Move container from fire area if it can be done without risk.
<b>Specific Hazard</b>	Extremely flammable. May explode in a fire. May travel considerable distance to source of ignition and flashback.
<b>Hazchem components</b>	Toxic gases/vapours/fumes of carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> )

## 6. Accidental Release Measures

<b>Spill Cleanup Methods</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate, exhaust aerosol in well-ventilated area.

## 7. Handling and Storage

<b>Handling Advice</b>	Keep away from heat, sparks and open flame.
<b>Storage Advice</b>	Flammable/combustible. Keep away from oxidizers, heat and flames. May attack some plastics, rubber and coatings.
<b>Storage Criteria</b>	Flammable compressed gas storage/

## 8. Exposure Controls/Personal Protection

<b>Ingredient Name:</b>	CAS No.      STD      LT EXP      ST EXP
Butane	106-97-8      OES      (8 hours) 600 ppm      (15 min) 750 ppm
<b>Engineering Controls:</b>	Aerosol propellant
<b>Personal Protective Equipment</b>	Use protective gloves made of rubber (natural, latex)
Ventilation	Well ventilated area

Respirators	No specific recommendation made, but respiratory protection must be used if the general level Occupation Exposure Level (OEL) is above normal levels.
Eye Protection	Under normal use should not be required. Always direct nozzle away from the face.
Other Protection	Use in well ventilated area.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Colourless gas
<b>Odour</b>	Mild (or faint), disagreeable
<b>Physical Data Comments</b>	This product is an aerosol using hydrocarbon propellants. The flammability data is based on these hydrocarbons.
<b>Solubility</b>	Slightly soluble in water.
<b>Specific Gravity (Water = 1)</b>	0.599 @ 20°C <b>Mol Weight (AT WT)</b> 58.14
<b>Vapour Pressure (mmHg)</b>	1520 @ 18°C <b>Vapour density (air = 1)</b> 2.05
<b>Melting Point</b>	-137°C
<b>Flash Point</b>	-60°C <b>Flash Point Method</b> CC (closed cup)

<b>Auto Ignition Temperature</b>	405°C
<b>Flammability Limit</b>	Lower % 1.90 Upper % 8.50

## 10. Stability and Reactivity

<b>Stability</b>	Avoid heat, sparks and flames.
<b>Reactivity</b>	Material to avoid: Strong oxidizing agents Conditions to avoid: Evaporates easily in are. Reacts strongly with oxidizers.
<b>Hazardous Decomposition Products</b>	Toxic gases/vapours/fumes of carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ).

## 11. Toxicological Information

<b>Toxic Conc. –LC50</b>	680 ppm/2h (inh-mus)
<b>Target organs</b>	Central nervous system, eyes, respiratory system and lungs
<b>Health Warnings</b>	Gas or vapour displaces oxygen available for breathing (asphyxiant). Narcotic effect
<b>Medial Symptoms</b>	May cause suffocation. Dizziness.
<b>Acute and chronic health hazards</b>	Contact with liquid form may cause frostbite.

## 12. Ecological Information



<b>Ecotoxology</b>	Not applicable

## 13. Disposal Considerations

<b>Disposal Methods</b>	Vent to atmosphere

<b>Empty Containers</b>	Dispose of empty containers without puncturing <b>DO NOT INCINERATE</b>

## 14. Transport Information

<b>Transport of Dangerous Goods Pictograms</b>	 <p>Flame. Gas 2.1</p> <p>Extremely flammable gas</p>  <p>Press. Gas L H280 Contains gas under pressure; may explode if heated</p>
<b><u>Air &amp; Sea &amp; Road/Rail Transport</u></b>	
<b>UN Number</b>	UN-1057
<b>Class-Primary</b>	2, Sub Class: 2.1.Flammable Gases
<b>Packing Group</b>	n/a - Flammable Gas
<b>Proper Shipping Name</b>	Butane Gas Lighter Fluid
<b>Hazchem Code</b>	Formerly 2WE. No HIN issued under RID and ADR in edition 7.5, 2017 of ADG code.

## 15. Regulatory Information

<b>Group Standard</b>	ADG code Edition 7.5, 2017 Class 2: Gases
<b>HSNO Classifications</b>	2.1.Flammable Gases (Category 1)
<b>GHS Pictogram:</b>	
<b>Risk Phrases</b>	R10 Flammable
<b>Safety Phrases</b>	<p>S-9 Keep in container in well ventilated place</p> <p>S-16 Keep away from sources of ignition – <b>NO SMOKING</b></p> <p>S-33 Take precautionary measures against static discharges</p>

## 16. Other Information

<b>User Notes</b>	This product is supplied in an aerosol form using a highly flammable gas as a propellant. Properly used for the intended purpose and in accordance to this safety data sheet should not present any undue hazard.
<b>Information Sources</b>	<p>Dangerous Properties of Industrial Chemicals, 6. Edition, N.Sax, 1984</p> <p>OSHA Air Contaminants – Permissible Exposure Limited (Title 29)</p> <p>Handbook of Toxic and Hazardous Chemicals and Carcinogens, Sittig, '85</p> <p>Hazardous Materials, Emergency Response Guidebook, DOTP 5800.3, 1984</p> <p>NIOSH/OSHA Pocket Guide to Chemical Hazards (latest edition)</p> <p>Threshold Limited Values and Biological Exposure Indices for 1994-95</p> <p>Chemical Safety Data Guide, Bureau of National Affairs, 1985</p>
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