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	Revised edition no : 0
	Date : 01/28/2019
	Supersedes 0 /0 /0
Gas Lighters	

Manufacturer

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Shenzhen City, China
TEL: +86755-2712 3254

Name: **Gas Lighters**

Section 1 – Chemical Product

MSDS Name: Gas Lighters

Section 2 - COMPOSITION, INFORMATION ON INGREDIEN

CAS#	Chemical Name	content	EINECS#
106-97-8	Butane	100	203-448-7



Hazard Symbols: F+
Risk Phrases: 12

Section 3 - HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW

Extremely flammable.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause frostbite.

May lead to the formation of blisters.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause cardiac sensitization and possible failure. May cause nausea, dizziness, and headache.

Chronic:

Chronic inhalation may cause effects similar to those of acute inhalation.

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SECTION 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.



Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Flammable Gas. Can form explosive mixtures at or above the flashpoint. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Will be easily ignited by heat, sparks or flame.

Containers may explode when heated.

Will form explosive mixtures with air.

Extinguishing Media:

For large fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. For small fires, use dry chemical or carbon dioxide. Do not extinguish a leaking gas fire unless leak can be stopped

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Remove all sources of ignition. Isolate area and deny entry. Use water spray to reduce vapors, do not put water directly on leak, spill area or inside container. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Stop leak only if you can do so without risk.

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SECTION 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation.

Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame.

Prevent build up of vapors to explosive concentration. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION



Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits CAS# 106-97-8: United Kingdom, WEL - TWA: 600 ppm TWA; 1450 mg/m³ TWA United Kingdom, WEL - STEL: 750 ppm STEL; 1810 mg/m³ STEL Belgium -TWA: 800 ppm VLE; 1928 mg/m³ VLE France - VME: 800 ppm VME; 1900 mg/m³ VME Germany: 1000 ppm TWA; 2400 mg/m³ TWA Japan: 500 ppm OEL; 1200 mg/m³ OEL Malaysia: 800 ppm TWA; 1900 mg/m³ TWA Netherlands: 600 ppm MAC; 1430 mg/m³ MAC Russia: 300 mg/m³ TWA Spain: 1000 ppm VLA-ED (listed under Aliphatic hydrocarbon gases mixtures alkanes C Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Aerosol
 Color: colorless
 Odor: faint, disagreeable
 pH: Not available.
 Vapor Pressure: 1557 mm Hg @20C
 Viscosity: Not available.
 Boiling Point: 30 deg F
 Freezing/Melting Point: -216 deg F
 Autoignition Temperature: 549 deg F (287.22 deg C)
 Flash Point: -76 deg F (-60.00 deg C)
 Explosion Limits, lower: Not available.
 Explosion Limits, upper: Not available.
 Decomposition Temperature:
 Solubility in water:
 Specific Gravity/Density: 0.5788
 Molecular Formula: C4H8
 Molecular Weight: 56.056

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:
 Stable under normal temperatures and pressures.
 Conditions to Avoid:
 Ignition sources, excess heat.
 Incompatibilities with Other Materials:
 Oxidizing agents, fluorine, nickel carbonyl, chlorine.
 Hazardous Decomposition Products:
 Oxides of carbon.
 Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:
 CAS# 106-97-8: EJ4200000 LD50/LC50:
 CAS# 106-97-8: Inhalation, mouse: LC50 = 680000 mg/m3/2H; Inhalation, rat: LC50 = 658000 mg/m3/4H.
 Carcinogenicity: Butane - Not listed by ACGIH, IARC, or NTP.
 Other:
 See actual entry in RTECS for complete information.

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SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

- Product is not classified as dangerous for environment.

12.2 Persistence and degradability

- It oxidizes very quickly in air (photochemical reaction).
- There are no data on the degradability of this product.

12.3 Bio-accumulative potential

- No data available on bioaccumulation.

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

- This product does not contain any PBT or vPvB Substances.

12.6 Other adverse effects

- None known.

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: LIGHTERS

Hazard Class: 2.1

UN Number: 1057

Packing Group: N/A

IMO Shipping Name: LIGHTERS

Hazard Class: 2.1

UN Number: 1057

Packing Group: N/A

RID/ADR

Shipping Name: LIGHTERS



Hazard Class: 2.1

UN Number: 1057

Packing group: N/A

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SECTION 15 - REGULATORY INFORMATION
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European/International Regulations
 European Labeling in Accordance with EC Directives
 Hazard Symbols: F+
 Risk Phrases:
 R 12 Extremely flammable.
 Safety Phrases:
 S 16 Keep away from sources of ignition - No smoking.
 S 24/25 Avoid contact with skin and eyes.
 WGK (Water Danger/Protection)
 CAS# 106-97-8: 0
 Canada
 CAS# 106-97-8 is listed on Canada's DSL List.
 CAS# 106-97-8 is listed on Canada's Ingredient Disclosure List.
 US FEDERAL
 TSCA
 CAS# 106-97-8 is listed on the TSCA inventory.

SECTION 16 - OTHER INFORMATION

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