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Tel: +40726160011 / +40726515445

International Chemical Safety Cards

BUTANE (LIQUIFIED GAS)

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Normal butane (liquified gas)

(cylinder)

C₄H₁₀ Molecular mass: 58.1

CAS # 106-97-8

RTECS # EJ4200000

ICSC # 0232 UN # 1011

EC # 601-004-00-0



ICSC: 0232

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Extremely flammable.	NO open flames, NO sparks, and NO smoking.	Shut off supply; if not possible and no risk to surroundings, let the fire burn itself out; in other cases extinguish with powder, carbon dioxide.
EXPLOSION	Gas/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding) if in liquid state.	In case of fire: keep cylinder cool by spraying with water. Combat fire from a sheltered position.
EXPOSURE			
INHALATION	Drowsiness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
SKIN	ON CONTACT WITH LIQUID: FROSTBITE.	Cold-insulating gloves. Protective clothing.	ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer for medical attention.
EYES	ON CONTACT WITH LIQUID: FROSTBITE.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
INGESTION			

SPILLAGE DISPOSAL	STORAGE	PACKAGING &LABELLING
Evacuate danger area! Consult an expert! Ventilation. NEVER direct water jet on liquid (extra personal protection: self-contained breathing apparatus).	Fireproof. Cool.	F symbol R: 12 S: (2-)9-16-33 Note: C UN Hazard Class: 2.1

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0232

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities �IPCS CEC 1993



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I M P O R T A N T	PHYSICAL STATE; APPEARANCE: ODOURLESSCOLOURLESS COMPRESSED LIQUEFIED GAS. PHYSICAL DANGERS: The gas is heavier than air and may travel along the ground; distant ignition possible, and may accumulate in low ceiling spaces causing deficiency of oxygen. CHEMICAL DANGERS: OCCUPATIONAL EXPOSURE LIMITS (OELs): TLV: 800 ppm; 1900 mg/m³ (ACGIH 1996). MAK: 1000 ppm; 2350 mg/m³; (1993)	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation. INHALATION RISK: A harmful concentration of this gas in the air will be reached very quickly on loss of containment. EFFECTS OF SHORT-TERM EXPOSURE: The liquid may cause frostbite. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
D A T A	MAK: 1000 ppm; 2350 mg/m³; (1993). Boiling point: -1♦C Melting point: -138♦C Relative density (water = 1): 0.6 Solubility in water, ml/100 ml at 20♦C: 3.25 Vapour pressure, kPa at 21.1♦C: 213.7	Relative vapour density (air = 1): 2.1 Flash point: Flammable Gas Auto-ignition temperature: 287 C Explosive limits, vol% in air: 1.8-8.4

ENVIRONMENTAL DATA

NOTES

High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death. Check oxygen content before entering area. Turn leaking cylinder with the leak up to prevent escape of gas in liquid state. The measures mentioned in section PREVENTION are applicable to production, filling of cylinders, and storage of the gas.

Transport Emergency Card: TEC (R)-27bNFPA Code: H1; F4; R0;

ADDITIONAL INFORMATION				
ICSC: 0232	BUTANE (LIQUIFIED GAS)			
♦ IPCS, CEC, 1993				
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EMERGENCY CALL 112				

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