

# International Chemical Safety Cards

## PROPANE

ICSC: 0319

PROPANE (cylinder) C <sub>3</sub> H <sub>8</sub> / CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>3</sub> Molecular mass: 44.1 CAS # 74-98-6 RTECS # TX2275000 ICSC # 0319 UN # 1978 EC # 601-003-00-5			
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 water spray.
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. Use non-sparking handtools.	In case of fire: keep cylinder cool by spraying with water. Combat fire from a sheltered position.
EXPOSURE			
INHALATION	Simple asphyxiant.	Ventilation.	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: chemical suit with self-contained breathing apparatus).		Fireproof. Cool.	F+ symbol R: 12 S: (2)-9-16 UN Hazard Class: 2.1
SEE IMPORTANT INFORMATION ON BACK			

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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  D A T A	<b>PHYSICAL STATE; APPEARANCE:</b> ODOURLESS, COLOURLESS COMPRESSED LIQUEFIED GAS. <b>PHYSICAL DANGERS:</b> 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. As a result of flow, agitation, etc., electrostatic charges can be generated. <b>CHEMICAL DANGERS:</b>  <b>OCCUPATIONAL EXPOSURE LIMITS (OELs):</b> TLV (as ): ppm; mg/m <sup>3</sup> simple asphyxiant (ACGIH 1995-1996). MAK: 1000 ppm; 1800 mg/m <sup>3</sup> ; IV (1993).	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation. <b>INHALATION RISK:</b> On loss of containment this liquid evaporates very quickly causing supersaturation of the air with serious risk of suffocation when in confined areas.  <b>EFFECTS OF SHORT-TERM EXPOSURE:</b> Rapid evaporation of the liquid may cause frostbite. <b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b>
	<b>PHYSICAL PROPERTIES</b> Boiling point: -42°C Melting point: -189°C Solubility in water, ml/100 ml at 18°C: 6.5 Relative vapour density (air = 1): 1.6	Flash point: Flammable Gas Auto-ignition temperature: 450°C Explosive limits, vol % in air: 2.1-9.5

## 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.

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

## ADDITIONAL INFORMATION

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IPCS, CEC, 1993

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**EMERGENCY CALL 112**

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