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## Propane Material Safety Data Sheet

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### IDENTIFICATION

**PRODUCT NAME:** PROPANE

**U.N. NO.** 1978

**MANUFACTURER:** Various including Exxon Mobil, Shell Co, Caltex, Esso, BHP Billiton

**HAZCHEM CODE:** 2YE

**D.G.CLASS/SUB RISK:** 2.1

**POISONS SCHEDULE:** N/A

**AS1940 CLASS:** N/A

**USE:** FUEL GAS

### PHYSICAL DESCRIPTION / PROPERTIES

**APPEARANCE:** COLOURLESS LIQUIFIED GAS

**ODOUR:** MILD

**pH:** NOT APPLICABLE

**BOILING POINT:** -42 C

**MELTING POINT:** -188 C

**POUR POINT:** NOT APPLICABLE

**VISCOSITY AT 40 C, cSt:** NOT APPLICABLE

**VISCOSITY AT 100 C, cSt:** NOT APPLICABLE

**VAPOUR PRESSURE (mm of Hg at 25C):** >1000.0

**SPECIFIC GRAVITY:** 0.6

**FLASH POINT:** -104 C (IP 34 / ASTM D-93)

**FLAMMABILITY LIMITS:** LEL 2.0% UEL 11.0%

**SOLUBILITY IN WATER:** NEGLIGIBLE

### INGREDIENTS

CHEMICAL ENTITY (CAS NO.)	PROPORTION
PROPANE	97.4
OTHER	2.6
Ethyl Mercaptan	trace

All components are registered in accordance with the Australian inventory of chemical substances.

CHEMICAL NAME	CAS NO.	List Citations
PROPANE	74-98-6	1

Key to List Citations

1 = ACGIH, 2 = IARC, 3 = NTP, 4 = NCI

### HEALTH EFFECTS

Can cause irritation or cold burns if contact with liquid-state LPG occurs. NOTE: Listed by Work Safe Australia exposure standards as a simple asphyxiant. Causes respiratory irritation, dizziness, nausea, loss of consciousness

#### ACUTE:

**SWALLOWED:** NOT APPLICABLE

**EYE:** NO EFFECTS

**SKIN:** NOT APPLICABLE, NO EFFECTS

**INHALED:** NON-TOXIC

#### CHRONIC:

Refer to health effects above

	Oral	Toxicity Dermal	Inhale.	Irritation Eye	Skin
<b>MATERIAL HAZARD CODE (MHC):</b>	N/A	N/A	0*	0*	0*

Assigned codes: 0 - 4 with 0 indicating lowest MHC classification.

(N/A = not applicable, NE = not established, C = corrosive, \* indicates estimated code based on testing of similar products and / or the components.)

### FIRST AID

- **SWALLOWED:** NOT EXPECTED TO OCCUR IN NORMAL INDUSTRIAL USE
- **EYE:** FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS CALL A DOCTOR
- **SKIN:** IF COLD BURNS OCCUR, IMMERSE INVOLVED AREA IN WARM WATER (BETWEEN 38 & 43 C - NOT EXCEEDING 44.5 C). KEEP IMMERSED FOR 30 TO 60 MIN. SEEK MEDICAL ATTENTION.

- **INHALED:** REMOVE FROM FURTHER EXPOSURE. IF UNCONSCIOUSNESS OCCURS OBTAIN **IMMEDIATE** MEDICAL ATTENTION OR CALL AN AMBULANCE. IF BREATHING HAS STOPPED USE A POSITIVE PRESSURE RESCUSCITATOR.

**PRECAUTIONS FOR USE****EXPOSURE STANDARDS:** NOT ESTABLISHED

WT%	EXPOSURE	LIMITS	SOURCES
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HAZARDOUS INGREDIENTS	(APPROX)	Mg / M3	PPM	(NOTES)
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**SOURCES:** A = ACGIH - TLV, A\* = suggested - TLV, M = Mobil, S = supplier, NE = not established.

Note: Limits shown for guidance only. Follow applicable regulations. (Refer Work Safe Australia Exposure standards)

**ENGINEERING CONTROLS:** Use in well ventilated area away from ignition sources**EYE PROTECTION:** Chemical type goggles should be worn if contact with liquid may occur**SKIN PROTECTION:** Thermally protective gloves must be worn when handling liquid**INHALATION:** Use self-contained breathing apparatus in oxygen deficient atmospheres**FLAMMABILITY:** Highly Flammable

Lower explosive limit: 2.0%, Upper explosive limit: 11.0%

**SAFE HANDLING INFORMATION****STORAGE AND TRANSPORT:** Store away from ignition sources.**OUTSIDE OR DETACHED STORAGE:** Use in well ventilated area away from all ignition sources. Avoid sparking conditions. Ground and bond all transfer equipment.

U.N.No: 1075, Shipping name: LIQUEFIED PETROLEUM GAS (LPG), Hazchem code: 2YE, Dangerous goods class / subsidiary risk: 2.1, AS1940 Class: Not applicable.

**SPILLS AND DISPOSAL:** Stop flow of gas. Remove cylinder to safe open area. Evaporate to atmosphere and use water spray to dilute vapour cloud. Evacuate area. Avoid ignition sources. Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited by the local Authority. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any licensed waste disposal site. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal**FIRE / EXPLOSION HAZARD:** Highly Flammable**FLASH POINT:** -104 c (imp 34 / astm d-93)**FLAMMABILITY LIMITS:** LEL 2.0%, UEL 11.0%**EXTINGUISHING MEDIA:** FOAM, DRY CHEMICAL, CO2 AND WATER FOG**SPECIAL FIRE FIGHTING PROCEDURES:** Stop flow of material. Use water to cool fire - exposed containers and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. For fires in enclosed areas fire fighters must use self-contained breathing apparatus. Prevent runoff from fire control or dilution entering waterways, sewers or drinking water supply**UNUSUAL FIRE AND EXPLOSION HAZARDS:** EXTREMELY FLAMMABLE. Vapour accumulation could flash and / or explode if in contact with open flame. Pressurised containers may explode if exposed to open flames or high temperatures**OTHER INFORMATION:****REACTIVITY DATA:****STABILITY (THERMAL, LIGHT ETC):** STABLE**CONDITIONS TO AVOID:** HEAT, SPARKS, FLAME AND BUILD UP OF STATIC ELECTRICITY.**INCOMPATIBILITY (MATERIALS TO AVOID):** STRONG OXIDISERS**HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR**TOXICOLOGICAL DATA****ORAL TOXICITY (RATS):** NOT APPLICABLE**DERMAL TOXICITY (RABBITS):** NOT APPLICABLE**INHALATION TOXICITY (RATS):** NON – TOXIC, BASED ON TESTING OF SIMILAR PRODUCTS AND / OR THE COMPONENTS.**EYE IRRITATION (RABBITS):** EXPECTED TO BE NON-IRRITATING. BASED ON TESTING OF SIMILAR PRODUCTS AND / OR THE COMPONENTS**FURTHER ACUTE TOXICITY DATA:** Simple asphyxiants act by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, nausea, and rapid heart rate, lack of coordination, lethargy, headaches, vomiting and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Since exercise increases the tissue need for oxygen, symptoms will occur more quickly during exertion in an oxygen deficient environment. Oxygen in enclosed spaces should be maintained at between 19.5% and 25% (by volume)**DISCLAIMER.**

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