



Liquefied Petroleum Gas (LPG)

AGent

AGent SDS: Liquefied Petroleum Gas (LPG) [2026.01]

Version No: 2026.01

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Hazard Alert Code: 3

Issue Date: June 2026

Print Date: (auto-fills on print)

AGENT.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Liquefied Petroleum Gas (LPG)
Chemical Name	Liquefied petroleum gas (propane / ethane)
Synonyms	LPG; propane; dimethylmethane; propylhydride
Proper shipping name	PETROLEUM GASES, LIQUEFIED
Chemical formula	Mainly propane (C ₃ H ₈) with minor ethane (C ₂ H ₆)
Other means of identification	Liquefied Petroleum Gas (LPG) [2026.01]

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Fuel; forklift fuel; lighter fluid.
Uses advised against	Not for use near ignition sources or in unventilated / confined spaces (asphyxiation and explosion risk).

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AGent Sales & Services Pty Ltd
Address	38 May Holman Drive, Bassendean WA 6054, Australia
Telephone	(+61 8) 6270 4500 / 1300 833 844
Website	agentsales.com.au
Email	admin@agentsales.com.au

Emergency telephone number

Association / Organisation	Hazrad (outside 24-hour emergency response provider)
Emergency telephone numbers	08 9418 4200 (24-hour) — answered by Hazrad on AGent's behalf
Other emergency telephone numbers	Poisons Information Centre 131 126 (Australia) / 0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. Classified under the WHS Regulations and the ADG Code — Class 2.1 Flammable Gas. Not a Scheduled Poison. Simple asphyxiant.

Poisons Schedule (SUSMP)	Not Scheduled (SUSMP — no schedule allocated)
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Classification

- Flammable Gas Category 1 — H220
- Gases Under Pressure: Liquefied Gas — H280

Label elements

Hazard pictogram(s)	
Signal word	DANGER

Hazard statement(s)

- H220 — Extremely flammable gas.
- H280 — Contains gas under pressure; may explode if heated.

Supplementary statement(s)

Simple asphyxiant — effects are proportional to oxygen displacement. Direct contact with the liquefied gas may cause frostbite (cold burns).

Precautionary statement(s) Prevention

- P210 — Keep away from heat / sparks / open flames / hot surfaces. No smoking.

Precautionary statement(s) Response

- P377 — Leaking gas fire: Do not extinguish unless the leak can be stopped safely.
- P381 — Eliminate all ignition sources if safe to do so.

Precautionary statement(s) Storage

- P410+P403 — Protect from sunlight. Store in a well-ventilated place. Store cylinders upright, secured, below 45 °C.

Precautionary statement(s) Disposal

- Return cylinders to supplier; do not dispose of as general waste.

Other hazards

Asphyxiant. Vapour is heavier than air, spreads along the ground and may accumulate in low / confined areas and flash back to an ignition source. Frostbite risk from liquefied gas / escaping compressed gas.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
74-98-6	> 95	Propane	Flam. Gas 1 (H220); Press. Gas (H280)
74-84-0	< 5	Ethane	Flam. Gas 1 (H220); Press. Gas (H280)

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

Cold burns: immediately flush with tepid water or sterile saline. Hold eyelids apart and irrigate for 15 minutes. Seek medical attention.

Skin Contact

Cold burns: remove contaminated clothing and gently flush affected areas with warm water (~30 °C) for 15 minutes. Apply a sterile dressing and treat as a thermal burn. Do NOT apply direct heat. Seek immediate medical attention.

Inhalation

Remove from contaminated area (rescuer to use air-line / SCBA; beware explosive atmospheres). In high concentrations may cause asphyxiation — victim may not be aware. Apply artificial respiration if not breathing; give oxygen if available. Keep warm and rested. Call a doctor.

Ingestion

Ingestion is not considered a potential route of exposure (gas).

Most important symptoms and effects, both acute and delayed

Simple asphyxiant — high concentrations displace oxygen causing dizziness, drowsiness, weakness, fatigue, breathing difficulty and unconsciousness; the victim may be unaware. Direct contact with the liquefied gas / escaping compressed gas causes frostbite.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Manage asphyxiation and frostbite (cold burns). Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

First Aid facilities

Eye wash facilities and a safety shower must be available in any area where this product is handled.

SECTION 5 Firefighting measures

Extinguishing media

Stop the flow of gas if safe to do so (e.g. slowly close the cylinder valve). Use fine water spray. Cool fire-exposed cylinders with water from a protected location.

Special hazards arising from the substance or mixture**Fire Incompatibility**

Extremely flammable. Forms explosive mixtures with air. Cylinders may rupture / vent in a fire.

Advice for firefighters**Fire Fighting**

Do NOT extinguish a leaking gas fire unless the leak can be stopped. Cool fire-exposed cylinders from a protected location; do not approach cylinders suspected of being hot. Wear SCBA and full protective clothing.

Fire / Explosion Hazard

Extremely flammable gas (Class 2.1). BLEVE / cylinder-rupture risk in fire. Vapour flash-back.

HAZCHEM Code	2YE
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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protective equipment requirements.

Evacuate the area of personnel. Eliminate all ignition sources. Ventilate where possible. Use PPE per Section 8. Inform the manufacturer / supplier of the leak.

Environmental precautions

Prevent gas entering sewers, basements and work-pits or any place where accumulation can be dangerous.

Methods and material for containment and cleaning up**Minor Spills**

Stop the flow of material if without risk. If the leak is irreparable, move the cylinder to a safe, well-ventilated area and allow it to discharge. Keep the area evacuated and free of ignition sources until any leaked liquid has evaporated.

Major Spills

Evacuate and isolate; eliminate ignition sources; ventilate. Do not approach a leaking cylinder near ignition. Allow controlled discharge in a safe area. Notify emergency services.

SECTION 7 Handling and storage

Precautions for safe handling**Safe handling**

Read the product label before use. Eliminate ignition sources — no smoking, no spark-producing tools / switches, no naked lights or mobile phones. Avoid inhalation; use in well-ventilated areas. Observe good personal hygiene. Use PPE per Section 8.

Other information

Store and use cylinders upright, secured against falling. Do NOT use natural-rubber flexible hoses. Keep away from incompatible materials (see Section 10).

Conditions for safe storage, including any incompatibilities

Suitable container

Store cylinders upright and secured in a dry, well-ventilated area below 45 °C, constructed of non-combustible material with a firm level (preferably concrete) floor, away from heavy traffic and emergency exits, and away from ignition sources and incompatible materials.

Storage incompatibility

Oxidising agents (e.g. hypochlorites); acids (e.g. nitric acid); oxygen; halogens; metal halides; heat and ignition sources. Do NOT use natural-rubber hoses. Store away from incompatible materials (see Section 10).

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Reference: Safe Work Australia, "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia.

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
SWA WEL 2024	Propane	Propane (LPG)	Simple asphyxiant — no specific WEL	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	Propane is a simple asphyxiant; SWA assigns no numeric WEL. Control by maintaining adequate oxygen / ventilation.
SWA WEL 2024	Ethane	Ethane (component)	Simple asphyxiant — no specific WEL	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	Ethane is a simple asphyxiant; no numeric WEL.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Propane / LPG	Not established (DOE PAC) — simple asphyxiant	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH	Revised IDLH	
Propane / LPG	2100 ppm (10% LEL) (NIOSH IDLH for propane)	Refer current NIOSH documentation	

MATERIAL DATA

No whole-mixture occupational exposure data are available; manage on a per-component basis (above).

Exposure controls

Appropriate engineering controls

Apply the hierarchy of controls (WHS Reg 36). Where elimination or substitution is not reasonably practicable: provide local exhaust ventilation at points of vapour / mist generation; use closed transfer systems where possible; ensure general ventilation is adequate to keep airborne concentrations below the applicable WEL. Document the risk assessment supporting the chosen control hierarchy.

Individual protection measures, such as personal protective equipment

Eye and face protection

Safety glasses with side shields (AS/NZS 1336 & 1337) as a minimum. Chemical goggles and a face shield (AS/NZS 1336 & 1337) where splash potential exists.

Skin protection

See Hand protection below.

Hands/feet protection

Wear face-shield and safety glasses (AS/NZS 1336 & 1337). Insulated gloves to protect against cold burns; solvent-resistant nitrile / neoprene / PVC and flame-retardant antistatic clothing where liquid contact is possible (AS 2161, AS 3765, AS 2210). Where an inhalation / oxygen-deficiency risk exists, use a full-face supplied-air respirator (AS/NZS 1715 & 1716).

Body protection

See Other protection below.

Other protection

Long-sleeved chemical-resistant protective clothing and apron (PVC or equivalent)

Respiratory protection

If a risk assessment indicates an inhalation risk exists, wear a half-face or full-face respirator with appropriate filter (selection per AS/NZS 1715; respirator per AS/NZS 1716). Specific cartridge / canister recommendation to be confirmed during respiratory protection risk assessment per AS/NZS 1715.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Gas (liquefied under pressure) — clear, colourless
Physical state	Liquefied gas under pressure
Odour	Characteristic (stented)
Odour threshold	No data available in source SDS
pH (as supplied)	Not applicable — gas
Melting point / freezing point (°C)	-187 °C
Initial boiling point and boiling range (°C)	-42 °C
Flash point (°C)	-104 °C
Evaporation rate	No data available (rapid — gas)
Flammability	Extremely flammable gas
Upper Explosive Limit (%)	9.5 % v/v
Lower Explosive Limit (%)	2.0 % v/v
Vapour pressure (kPa)	> 1000 mmHg at 25 °C
Solubility in water	Not miscible with water
Vapour density (Air = 1)	> 1 (air = 1) — heavier than air
Relative density (Water = 1)	0.5 g/mL (liquid)
Partition coefficient n-octanol/water	log Kow ≈ 2.3 (propane)
Auto-ignition temperature (°C)	~450 – 470 °C (propane; no value in source SDS)
Decomposition temperature (°C)	No data available in source SDS
Viscosity (cSt)	Not applicable — gas
Molecular weight (g/mol)	~44 g/mol (propane)
Taste	Not applicable
Explosive properties	Forms explosive mixtures with air within LEL–UEL
Oxidising properties	None
Surface Tension (dyn/cm or mN/m)	Not applicable
Volatile Component (% vol)	100% (gas)
Gas group	IIA (propane)
pH as a solution (1%)	Not applicable — gas
VOC g/L	Not applicable — liquefied gas (is itself a hydrocarbon gas)

SECTION 10 Stability and reactivity

Reactivity	Stable under normal conditions of use.
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	Polymerisation will not occur. Potentially violent reaction with oxygen, halogens and metal halides.
Conditions to avoid	Heat; sparks; open flames; ignition sources.
Incompatible materials	See Section 7. Oxidisers; acids; oxygen; halogens; metal halides. Natural-rubber hoses.
Hazardous decomposition products	Will not decompose to form hazardous products other than combustion products (carbon oxides).

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Simple asphyxiant — dizziness, drowsiness, weakness, breathing difficulty and unconsciousness from oxygen displacement.

Ingestion

Not a relevant route (gas).

Skin Contact

Not a skin irritant. Liquefied gas / escaping compressed gas causes frostbite.

Eye

Not an eye irritant. Liquefied gas / escaping compressed gas causes frostbite (cold burns).

Chronic

Not classified as a carcinogen, mutagen or reproductive toxicant.

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
Propane	Low toxicity — simple asphyxiant; classification criteria not met	Not an irritant (frostbite risk from liquefied gas)
Ethane	Low toxicity — simple asphyxiant	Not an irritant

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	—	Carcinogenicity	—
Skin Irritation/Corrosion	—	Reproductive Toxicity	—
Serious Eye Damage/Irritation	—	STOT — Single Exposure	—
Respiratory or Skin Sensitisation	—	STOT — Repeated Exposure	—
Mutagenicity	—	Aspiration Hazard	—

Legend: ✓ = Data available to make classification; — = Data either not available or does not fill the criteria for classification.

Information on possible routes of exposure

Inhalation; skin / eye contact (frostbite from liquefied gas).

Additional Information

RTECS	Not available
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
LPG (propane / ethane)	No data	Not applicable	Not applicable	No ecological data available; volatile gas — no known ecological damage	AGent SDS
LPG (propane / ethane)	No data	Not applicable	Not applicable	Not applicable — volatile gas	AGent SDS

Environmental precaution: Prevent entry to drains, waterways and soak-aways. Notify the relevant Environmental Protection Authority if waterway contamination occurs.

Persistence and degradability

Ingredient	Persistence: Water / Soil	Persistence: Air
LPG (propane / ethane)	Volatilises rapidly from water / soil; degrades in air.	Degrades by photochemical oxidation.

Bioaccumulative potential

Ingredient	Bioaccumulation
LPG (propane / ethane)	Not expected to bioaccumulate (volatile gas).

Mobility in soil

Ingredient	Mobility
LPG (propane / ethane)	Highly volatile — partitions to air; not miscible with water.

Other adverse effects

No known ecological damage is caused by this product (volatile gas).

SECTION 13 Disposal considerations**Waste treatment methods****Product / Packaging disposal**

- Ensure waste disposal conforms to all relevant local, state and federal authority waste disposal regulations.
- Do NOT discharge into sewers or waterways.
- Return cylinders to the supplier. Do NOT dispose of as general waste. Allow controlled discharge only in a safe, well-ventilated area away from ignition.

SECTION 14 Transport information

Labels Required	Class 2.1 (Flammable Gas) — see ADG Table 3.2.3
Marine Pollutant	No
HAZCHEM Code	2YE

Land transport (ADG)

UN number	1075
UN proper shipping name	PETROLEUM GASES, LIQUEFIED
Transport hazard class(es)	Class 2.1 (Flammable Gas); Subsidiary Hazard: Not Applicable
Packing group	Not Applicable (Class 2 gas)
Environmental hazard	Not classified as environmentally hazardous
Special precautions for user	ADG Table 3.2.3 (UN 1075): no packing group (Class 2). Per ADG Edition 7.9 (Table 3.2.3). GTEPG 2A2.
ERG / EIP number	ANZ-ERG 2024 Guide 115 (Gases - Flammable, including refrigerated liquids).

Air transport (ICAO-IATA / DGR)

UN number	1075
UN proper shipping name (lowercase)	Petroleum gases, liquefied
ICAO/IATA Class	Class 2.1; ERG Code: Not Applicable — AGent does not air-freight
Packing group	Not Applicable (Class 2 gas)
Environmental hazard	Not Applicable
Special provisions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above.
Cargo Only Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Cargo Only Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.

Sea transport (IMDG-Code / GGVSee)

UN number	1075
UN proper shipping name	PETROLEUM GASES, LIQUEFIED
IMDG Class	Class 2.1
Packing group	Not Applicable (Class 2 gas)
Environmental hazard	Not a Marine Pollutant
EMS Number	F-D, S-U
Special provisions	Not Applicable — AGent does not export this product or transport it by sea. Refer to land transport (ADG) above.

Transport in bulk according to MARPOL Annex II and the IBC Code

Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Liquefied Petroleum Gas (LPG)	Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Liquefied Petroleum Gas (LPG)	Not Applicable — AGent does not transport this product in bulk by sea.

SECTION 15 Regulatory information**Safety, health and environmental regulations / legislation specific for the substance or mixture**

PROPANE (CAS 74-98-6) / ETHANE (CAS 74-84-0) are found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Flam. Gas 1 / Press. Gas
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not listed
- Australian Inventory of Industrial Chemicals (AIIC): Listed
- IARC Group classification: Not classified
- Schedule 10 of the model WHS Regulations (prohibited / restricted carcinogens): Not listed
- Schedule 14 of the model WHS Regulations (health monitoring trigger): Not listed

Additional Regulatory Information

Subject to: Work Health and Safety (General) Regulations 2022 (WA); "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia; Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) current edition.

National Inventory Status

Country / Inventory	Listed
Australia (AIIC / AICS)	Yes
Canada (DSL)	Not applicable — AGent does not export this product
Canada (NDSL)	Not applicable — AGent does not export this product
China (IECSC)	Not applicable — AGent does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGent does not export this product
Japan (ENCS)	Not applicable — AGent does not export this product
Korea (KECI)	Not applicable — AGent does not export this product
New Zealand (NZIoC)	Not applicable — AGent does not export this product
Philippines (PICCS)	Not applicable — AGent does not export this product
USA (TSCA)	Not applicable — AGent does not export this product
Taiwan (TCSI)	Not applicable — AGent does not export this product
Mexico (INSQ)	Not applicable — AGent does not export this product
Vietnam (NCI)	Not applicable — AGent does not export this product
Russia (FBEPH)	Not applicable — AGent does not export this product

Legend: Yes = All CAS declared ingredients are on the inventory; No = One or more CAS listed ingredients are not on the inventory (may be exempt or require registration).

SECTION 16 Other information

Revision Date	June 2026
Initial Date	June 2026 (AGent 2026 format)

SDS Version Summary

Version	Date of Update	Sections Updated
2026.01 (AGent 2026 format)	June 2026	Reformatted from legacy V2.2 to AGent 2026 layout. §14 ERG updated to ANZ-ERG 2024 Guide 115; PSN typo 'LIQUIFIED' corrected to 'LIQUEFIED'; removed superseded legacy abbreviations, NOHSC risk/safety phrases and exposure-standard references; AICS→AIIC. Classification unchanged (Flam Gas 1 / Press Gas; Danger; UN 1075 Class 2.1).
V2.2 (legacy AGent format)	Pre-2026	Older format. Flam Gas 1 / Gas under pressure; Danger; UN 1075 Class 2.1.

Other information

This SDS is intended as a hazard communication tool to assist in workplace Risk Assessment. It is not an Australian Standard or a definitive document.

Definitions and abbreviations

Abbreviation	Definition
ADG	Australian Dangerous Goods Code
AICS / AIIC	Australian Inventory of Industrial Chemicals (formerly AICS)
AUH	Additional / Australian Hazard statements
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service Registry Number
DNEL	Derived No Effect Level
DSEN	Dermal sensitiser (SWA WEL 2024 notation)
EC50	Effect Concentration causing effect in 50% of test population
EMS	IMDG Emergency Schedule
ERG / EIP	Emergency Response Guide / Emergency Information Panel (SAA/SNZ HB76)
ES	Exposure Standard (legacy term — now WEL)
GHS	Globally Harmonised System of Classification and Labelling
HCIS	Hazardous Chemical Information System (Safe Work Australia)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal Concentration causing death in 50% of test population
LD50	Lethal Dose causing death in 50% of test population
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupational Exposure Limit
OTO	Ototoxic (SWA WEL 2024 notation)
PC-STEEL	Permissible Concentration — Short Term Exposure Limit
PC-TWA	Permissible Concentration — Time Weighted Average
PNEC	Predicted No Effect Concentration
RSEN	Respiratory sensitiser (SWA WEL 2024 notation)
SDS	Safety Data Sheet
Sk	Skin notation — absorption through the skin a significant route
STEEL	Short Term Exposure Limit (15 min TWA)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TEEL	Temporary Emergency Exposure Limit

TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hr / 40 hr week)
WEL	Workplace Exposure Limit (Safe Work Australia, April 2024)
WHS	Work Health and Safety

Disclaimer

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