

SAFETY DATA SHEET

PRO GASES
UK

Pro Propane



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED
BY UK REACH REGULATIONS SI 2019/758

Date of issue: 15/10/2025
Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier		
	Product name	Pro Propane	
	Product storage	Sold in Cylinders	
	CAS No.	74-98-6	
	EC No.	200-827-9	
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified Use(s)	Industrial and professional uses. Perform risk assessment prior to use. Aerosol propellant. Fuel gas for heating, cutting and industrial combustion applications (must only be carried out by trained personnel)	
	Uses advised against	Anything other than the above.	
1.3	Details of the supplier of the safety data sheet		
	Company Identification	Pro Gases UK 28 Forth Street, Bootle, Liverpool, United Kingdom, L20 8JW	
	Telephone	0151 922 1118	
	E-mail (competent person)	info@progasesuk.com	
1.4	Emergency Telephone Number		
	Emergency Phone No.	+44 (0) 127356 9048	Available 24/7
	Language(s) spoken:	English	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Flam. Gas 1A; H220 Press. Gas Liquefied Gas, H280
2.2 Label elements	
Product description	According to the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain Pro Propane
Hazard Pictogram(s)	 
Signal Word(s)	DANGER
Hazard Statement(s)	H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381: Eliminate all ignition sources if safe to do so. P410+P403: Protect from sunlight. Store in a well-ventilated place.

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2.3 Other hazards

The vapour is heavier than air; beware of pits and confined spaces. Vapour may create explosive atmosphere. The vapour may have narcotic effect. Frostbite (cold burn). Not classified as PBT or vPvB. Does not cause endocrine disruption.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Propane	74-98-6	200-827-9	Not yet assigned in the supply chain	100

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Avoid all contact. Do not breathe gas. Eliminate sources of ignition. Use personal protective equipment as required. The vapour is heavier than air; beware of pits and confined spaces. Drench contaminated clothing with water before removing to avoid risk of sparks from static electricity. If it is suspected that fumes are still present, the responder should wear an appropriate mask or self-contained breathing apparatus.

Inhalation
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical advice/attention if you feel unwell.

Skin contact
IF ON SKIN: Remove clothing and wash thoroughly before use. Wash affected skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Frostbite (cold burn): Do not attempt to remove clothing that adheres to the skin due to freezing. Thaw frosted parts with lukewarm water. Do not rub affected area. Seek medical advice.

Eye contact
IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention if eye irritation develops or persists. Frostbite (cold burn): Obtain immediate medical attention. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

Ingestion
IF SWALLOWED: Rinse mouth. Give 200-300mls (half pint) water to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

The vapour may have narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Skin contact: Frostbite (cold burn)

Notes to a physician:

Treat Symptomatically.

IF INHALED: Administer oxygen if available and artificial respiration if necessary.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Foam, CO2 or dry powder

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Combustion or thermal decomposition will evolve very

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Compressed gas

5.3 Advice for firefighters

toxic, irritant and flammable vapours. Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Aldehydes, Ketones, Hydrogen, Alkene, Methane, A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds.

Contains gas under pressure; may explode if heated. Sealed containers may rupture explosively if hot. Do not pierce or burn, even after use.

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Shut off source of leak if safe to do so. Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Do not breathe gas. Stay upwind/keep distance from source. In case of inadequate ventilation wear respiratory protection. Avoid all contact. Wear suitable protective clothing. Contaminated clothing should be thoroughly cleaned. The vapour is heavier than air; beware of pits and confined spaces. Danger of flashback. Take precautionary measures against static discharge. Do not use sparking tools. Spillage can create tripping or slipping hazards for personnel, or skidding hazards for vehicles. Only trained and properly protected personnel must be involved in clean-up operations.

6.2 Environmental precautions

Avoid release to the environment. Contain the spillage. Any large spillage into watercourses must be alerted to the regulatory authority responsible for environmental protection or other regulatory body.

6.3 Methods and material for containment and cleaning up

Only trained and properly protected personnel must be involved in clean-up operations. Ensure adequate ventilation. Isolate the area and allow vapours to disperse.

Small scale

Contain spillages with sand, earth or any suitable adsorbent material. Allow small spillages to evaporate provided there is adequate ventilation. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete.

Large scale

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Notify police and fire brigade as soon as possible.

6.4 Reference to other sections

See sections 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Eliminate sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. The vapour is heavier than air; beware of pits and confined spaces. Danger of flashback. Take precautionary measures against static discharge. Do not use sparking tools. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. In case of inadequate ventilation wear respiratory protection. Wear suitable protective clothing. Do not breathe gas. Avoid all contact. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke at the work place. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Ensure adequate earthing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage temperature

Keep cool.

Incompatible materials

Strong oxidising agents. Keep away from heat and sources of ignition.

7.3 Specific end use(s)

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits




Not assigned.

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8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Guarantee that the eye flushing systems and safety showers are located close to the working place.
8.2.2	Individual protection measures, such as personal protective equipment	Avoid all contact. Do not breathe gas. Fuels are typically used, transferred and transported in closed systems. Keep good industrial hygiene. Do not eat, drink or smoke at the work place.
	Eye/ face protection	Wear eye protection with side protection (EN166). Eyewash bottles should be available.
		
	Skin protection	Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Suitable materials: Butyl rubber, Nitrile rubber.
		
	Respiratory protection	Body protection: Apron or other light protective clothing, boots and plastic or rubber gloves. In case of inadequate ventilation wear respiratory protection. Recommended: BS EN 14387:2004+A1
		
	Thermal hazards	Skin contact: Frostbite (cold burn).
8.2.3	Environmental exposure controls	Avoid release to environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Liquefied gas
	Odour	Trace odorant (<0.1%) for leak detection
	Odour threshold	Not available
	pH	Not applicable
	Melting point/freezing point	Not available
	Initial boiling point and boiling range	- 42 °C
	Flash point	- 104 °C (Closed cup)
	Evaporation rate	Not available
	Flammability (solid, gas)	Extremely flammable
	Upper/lower flammability or explosive limits	Upper limit: 9.5 vol % in air Lower limit: 2.2 vol % in air
	Vapour pressure	860 kPa (20 °C)
	Vapour density	> 1 (Air = 1)
	Relative density	0.50 – 0.52 (15 °C) (Water = 1)
	Solubility(ies)	6.5% (Water)
	Partition coefficient: n-octanol/water	Not available

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Auto-ignition temperature	450 °C
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

9.2 Other information

Product storage	Sold in Cylinders
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SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Not determined. Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Not determined. No information available.
10.4	Conditions to avoid	Keep away from heat and sources of ignition.
10.5	Incompatible materials	Keep away from: Strong oxidising agents.
10.6	Hazardous decomposition products	Combustion products: Carbon monoxide, Carbon dioxide, Aldehydes, Ketones, Hydrogen, Alkene, Methane, A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 > 20,000 ppm (Gases)
	Acute toxicity - Skin contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
	Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
	Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Based upon the available data, the classification criteria are not met.
	STOT - Single Exposure	Based upon the available data, the classification criteria are not met.
	STOT - Repeated Exposure	Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2	Other information	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Based upon the available data, the classification criteria are not met. LC50 (Fish): > 1000 mg/l/96h
12.2	Persistence and degradability	Bioconcentration factor (BCF): Estimated 1.56-1.78
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4	Mobility in soil	The product has low mobility in soil.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None Known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	UK Waste Codes: HP3

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13.2 Additional information

Containers of this material may be hazardous when empty since they retain product residue. Do not pierce or burn, even after use.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	1978	1978	1978
14.2 UN proper shipping name	PROPANE	PROPANE	PROPANE
14.3 Transport hazard class(es)	2	2	2
14.4 Packing group	None assigned	None assigned	None assigned
14.5 Environmental hazards	Not classified		
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable	Not applicable
14.8 Additional information			
Special Provisions	392, 652, 657, 662, 674		

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	Not restricted
15.1.2	National regulations	
	UK Authorisations and/or restrictions on use	Not restricted
15.2	Chemical Safety Assessment	This substance is exempted from Registration according to the provisions of Article 2(7)a and Annex IV of REACH

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

References:

Existing Safety Data Sheet (SDS)

EU Harmonised Classification and Existing ECHA registration for Propane (CAS No. 74-98-6).

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.
Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Legend

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service
DNEL	Derived no effect level
EC	European Community
EN	European Standard
EU	European Union
IATA	International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	International Maritime Dangerous Goods
kd	Partition Coefficient
LC50	Lethal concentration 50
LD50	Lethal dose 50
LOAEL	Lowest Observed Adverse Effect Level
LTEL	Long term exposure limit
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration

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OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short term exposure limit
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Flam. Gas 1, Flammable gas, Category 1
Press. Gas Liquefied gas

Hazard Statement(s)

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

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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