



Propane

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 12/3/2015
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Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : Propane
CAS-No. : 74-98-6
Product code : Not available

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Petroleum distillate.

1.3. Supplier

Distributor

NGL Supply Co., Ltd.
1420, 225 - 6th Avenue SW
Calgary, Alberta T2P 1N2
T 403-265-1977

Distributor

NGL Supply Terminal Company
720 South Colorado Blvd. Suit 720N
Denver, CO 80246 - USA
T 303-839-1806

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300
ERAC Emergency Response 1-800-265-0212

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Flam. Gas 1
Press. Gas (Liq.)
Simple Asphy

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Extremely flammable gas.

Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation

Precautionary statements (GHS) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Propane
CAS-No. : 74-98-6

Name	Chemical name / Synonyms	Product identifier	%
Propane	Propane Normal propane / PROPANE / n-Propane / R290	CAS-No.: 74-98-6	100

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Thaw frosted parts with lukewarm water. Do not rub affected area. If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory tract irritation. Intentional inhalation may cause respiratory irritation and central nervous system effects (headaches, dizziness). May cause asphyxiation.

Symptoms/effects after skin contact : Not a normal route of exposure. May cause frostbite burns to the skin.

Symptoms/effects after eye contact : Not a normal route of exposure. Causes frostbite burns to the eyes.

Symptoms/effects after ingestion : Not a normal route of exposure.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Powder. Water spray. Foam. Carbon dioxide.
Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable gas. Products of combustion may include, and are not limited to: oxides of carbon.

Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Do not direct water at source of leak or at safety devices; icing may occur.
Protection during firefighting	: Containers may explode when heated. Use water spray to keep fire-exposed containers cool. For large fires, flood fire area with large quantities of water, while knocking down vapours with water fog. Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use special care to avoid static electric charges. Eliminate every possible source of ignition. Ruptured cylinders may rocket. . Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Eliminate sources of ignition. Stop leak if safe to do so. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up	: Provide ventilation. Keep upwind. Evacuate area and remove ignition sources.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. Keep away from sources of ignition - No smoking.
Precautions for safe handling	: Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Use explosion-proof equipment. Use only non-sparking tools. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Use only in well-ventilated areas. When using do not eat, drink or smoke. Handle and open container with care.
Hygiene measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep out of the reach of children. Store away from direct sunlight or other heat sources. Keep container tightly closed and in a well-ventilated place. Keep cool.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propane (74-98-6)	
No additional information available	
Propane (74-98-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Propane
Remark (ACGIH)	TLV® Basis: Simple Asphyxiant
ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	Propane
OSHA PEL TWA [1]	1800 mg/m ³
OSHA PEL TWA [2]	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH [ppm]	2100 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1800 mg/m ³
NIOSH REL TWA [ppm]	1000 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves
Eye protection:
Safety glasses or goggles are recommended when using product.
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Clear
Colour	: Colourless
Odour	: Low odour
Odour threshold	: No data available
pH	: Not applicable
Melting point	: No data available
Freezing point	: No data available
Boiling point	: $\approx -42\text{ }^{\circ}\text{C}$ (44 $^{\circ}\text{F}$)
Flash point	: $< -56\text{ }^{\circ}\text{C}$ (68 $^{\circ}\text{F}$)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Extremely flammable gas.
Vapour pressure	: 600 – 39000 hPa at 20 $^{\circ}\text{C}$ (68 $^{\circ}\text{F}$)
Relative vapour density at 20 $^{\circ}\text{C}$: 1.55
Relative density	: 0.506 – 0.583 at 15 $^{\circ}\text{C}$ (59 $^{\circ}\text{F}$)
Solubility	: No data available
Partition coefficient n-octanol/water	: 2.3
Auto-ignition temperature	: $\approx 450\text{ }^{\circ}\text{C}$ (842 $^{\circ}\text{F}$)
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: 2.1 – 9.5 vol %
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Extremely flammable gas. Contains gas under pressure; may explode if heated. Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Sparks. Heat. Incompatible materials. Sources of ignition.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Not classified.

Propane (74-98-6)	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	658 mg/l/4h
ATE CA (vapours)	658 mg/l/4h
ATE CA (dust,mist)	658 mg/l/4h

Propane (74-98-6)	
LC50 inhalation rat	> 800000 ppm (Exposure time: 15 min)

Skin corrosion/irritation : Not classified.
pH: Not applicable
Serious eye damage/irritation : Not classified.
pH: Not applicable
Respiratory or skin sensitisation : Not classified.
Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.
Reproductive toxicity : Not classified.
STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

Propane (74-98-6)	
Viscosity, kinematic	Not applicable

Symptoms/effects after inhalation : May cause respiratory tract irritation. Intentional inhalation may cause respiratory irritation and central nervous system effects (headaches, dizziness). May cause asphyxiation.
Symptoms/effects after skin contact : Not a normal route of exposure. May cause frostbite burns to the skin.
Symptoms/effects after eye contact : Not a normal route of exposure. Causes frostbite burns to the eyes.
Symptoms/effects after ingestion : Not a normal route of exposure.
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Propane (74-98-6)	
Persistence and degradability	Not established.

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12.3. Bioaccumulative potential

Propane (74-98-6)

Partition coefficient n-octanol/water	2.3
Bioaccumulative potential	Not established.

Propane (74-98-6)

Partition coefficient n-octanol/water	2.3
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on global warming	: No known effects from this product.
Other information	: No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with DOT / TDG

14.1. UN number

DOT NA No	: UN1075
UN-No. (TDG)	: UN1075

14.2. UN proper shipping name

Proper Shipping Name (DOT/TDG)	: Petroleum gases, liquefied
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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: 2.1
Hazard labels (DOT)	: 2.1



TDG

Transport hazard class(es) (TDG)	: 2.1
Hazard labels (TDG)	: 2.1

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14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

DOT

UN-No.(DOT) : UN1075
DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Packaging Non Bulk (49 CFR 173.xxx) : 304
DOT Packaging Bulk (49 CFR 173.xxx) : 314;315
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

TDG

UN-No. (TDG) : UN1075
ERAP Index : 3000
Explosive Limit and Limited Quantity Index : 0.125 L
Excepted quantities (TDG) : E0
Passenger Carrying Ship Index : 110 kg
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : Forbidden
Emergency Response Guide (ERG) Number : 115

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

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15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 01/11/2022
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Full text of H-statements	
Flam. Gas 1	Flammable gases, Category 1
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Simple Asphy	Simple Asphyxiant
Indication of changes:	
SDS update.	

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2021

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