Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Propane

Manufacturer or supplier's details

Supplier : Shell Australia Pty Ltd

GPO Box A47 CDC Perth WA 6837

Australia

Telephone : +61893386600

Telefax

Emergency telephone

number

: +61 (0) 420 909 376

Recommended use of the chemical and restrictions on use

Recommended use : Used as a domestic, commercial, industrial and automotive

fuel, a feedstock in chemical processes.

Restrictions on use : This product must not be used in applications other than those

listed in Section 1 without first seeking the advice of the

supplier.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable gases : Category 1
Gases under pressure : Compressed gas

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

Precautionary statements

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P243 Take precautionary measures against static discharge.

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Response:

P377 Leaking gas fire: Do not extinguish, unless leak can be

stopped safely.

P381 Eliminate all ignition sources if safe to do so.

Storage:

P410 + P403 Protect from sunlight. Store in a well-ventilated

place.

Disposal:

No precautionary phrases.

Sensitising components : Contains: Not scheduled.

Other hazards which do not result in classification

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger. High gas concentrations will displace available air; unconsciousness and death may occur suddenly from lack of oxygen. Exposure to rapidly expanding gases may cause frost burns to eyes and/or skin. This material has the potential to be a static accumulator. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. High gas concentrations will displace available air; unconsciousness and death may occur suddenly from lack of oxygen. This material has the potential to be a static accumulator.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : A complex combination of hydrocarbons produced by the

distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40

°F to 176 °F).

It may also contain one or more of the following additives: odourants (usually ethyl mercaptan), anti-icing agents.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
propane	74-98-6	Flam. Gas1; H220 Flam. GasLiquefied gas; H280	>= 90 - <= 100
butane	106-97-8	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 0 - <= 2.5
ethane	74-84-0	Flam. Gas1; H220 Press. GasCompr. Gas; H280	>= 0 - <= 2

For explanation of abbreviations see section 16.

2 / 16 800001038098

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

SECTION 4. FIRST-AID MEASURES

General advice : Not expected to be a health hazard when used under normal

conditions.

If inhaled : Call emergency number for your location / facility.

Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to

the nearest medical facility.

In case of skin contact : In the event of frostbite, slowly warm the exposed area by

rinsing with warm water. Seek medical advice.

Transport to the nearest medical facility for additional

treatment.

In case of eye contact : Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If persistent irritation occurs, obtain medical attention. In the event of frostbite, slowly warm the exposed area by

rinsing with warm water.

Transport to the nearest medical facility for additional

treatment.

If swallowed : In the unlikely event of ingestion, obtain medical attention

immediately.

Most important symptoms and effects, both acute and

delayed

High gas concentrations will displace available air;

unconsciousness and death may occur suddenly from lack of

oxygen.

Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and

death.

Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to

cause nost builts of exposed tissues (skill, eye) t

evaporative cooling.

Protection of first-aiders : When administering first aid, ensure that you are wearing the

appropriate personal protective equipment according to the

incident, injury and surroundings.

Notes to physician : IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these

effects. Consider: oxygen therapy.

Call a doctor or poison control center for guidance.

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Shut off supply. If not possible and no risk to surroundings, let

the fire burn itself out.

Dry chemical

Propane

Print Date 03.06.2020 Version 0.0 Revision Date 03.06.2020 Carbon dioxide (CO2) Keep containers and surroundings cool with water spray. Large fires should only be fought by properly trained fire fighters. Unsuitable extinguishing Do not use direct water jets on the burning product as they media could cause a steam explosion and spread of the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Specific hazards during Hazardous combustion products may include: firefighting Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds. Contents are under pressure and can explode when exposed to heat or flames. Sustained fire attack on vessels may result in a Boiling Liquid Expanding Vapor Explosion (BLEVE). The vapour is heavier than air, spreads along the ground and distant ignition is possible. Specific extinguishing Use extinguishing measures that are appropriate to local methods circumstances and the surrounding environment. Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water. If possible remove containers from the danger zone. If the fire cannot be extinguished the only course of action is to evacuate immediately. Special protective equipment Proper protective equipment including chemical resistant for firefighters gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469). Hazchem Code 2YE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area and evacuate all personnel. Attempt to disperse the gas or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas meter.

Vapour may form an explosive mixture with air.

: Test atmosphere for flammable gas concentrations to ensure safe working conditions before personnel are allowed to enter

the area.

Environmental precautions : Use appropriate containment to avoid environmental

contamination.

Risk of explosion. Inform the emergency services if product

enters surface water drains.

Methods and materials for : Allow to evaporate.

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

containment and cleaning up

Attempt to disperse the gas or to direct its flow to a safe location, for example by using fog sprays.

Avoid contact with skin, eyes and clothing.

Evacuate the area of all non-essential personnel.

Ventilate contaminated area thoroughly.

If contamination of site occurs remediation may require specialist advice.

Take precautionary measures against static discharges.

Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Observe all relevant local and international regulations.

Additional advice : For guidance on selection of personal protective equipment

see Section 8 of this Safety Data Sheet.

Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur.

For guidance on disposal of spilled material see Section 13 of

this Safety Data Sheet.

Vapour may form an explosive mixture with air.

Risk of explosion. Inform the emergency services if product

enters surface water drains.

SECTION 7. HANDLING AND STORAGE

General Precautions : Avoid breathing of or direct contact with material. Only use in

well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see

Section 8 of this Safety Data Sheet.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine

appropriate controls for safe handling, storage and disposal of

this material.

Air-dry contaminated clothing in a well-ventilated area before

laundering.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Take precautionary measures against static discharges.

Advice on safe handling : Ensure that all local regulations regarding handling and

storage facilities are followed.

This product is intended for use in closed systems only. Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks.

Avoid prolonged or repeated contact with skin.

Electrostatic charges may be generated during pumping.

Electrostatic discharge may cause fire.

Earth all equipment.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols. Strong oxidising agents.

Avoidance of contact

Product Transfer : Refer to guidance under Handling section. Do not use

compressed air for filling discharge or handling. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Electrostatic charges may be generated during

pumping. Electrostatic discharge may cause fire.

Storage

Other data : Store only in purpose-designed, appropriately labelled

Propane

Version 0.0	Revision Date 03.06.2020	Print Date 03.06.2020
	pressure vessels or cylinders. Must be stored in a well-ventilated are ignition sources and other sources of Do not store near cylinders containing other strong oxidizers. Refer to section 15 for any additional covering the packaging and storage or	heat. g compressed oxygen or specific legislation
Packaging material	: Suitable material: For containers and materials specifically approved for use Examples of suitable materials are: PAPTFE, GRE (Epoxy), GRVE (vinyl est and GB, Neoprene (CR). Unsuitable material: Some forms of camaterials to avoid are: ABS, polymeth (PMMA), polyethylene (PE / HDPE), pPVC, natural rubber (NR), Nitrile (NBF rubber (EPDM), Butyl (IIR), Hypalon (polyvinyl chloride (PVC), polyisobutyle container linings, aluminium should no risk of caustic contamination of the present the suitable of the suitable of the present the suitable of the suitabl	e with this product., A-11, PEEK, PVDF, eer), Viton (FKM), type F ast iron., Examples of yl methacrylate polypropylene (PP), R) ethylene propylene CSM), polystyrene, ene., For containers and ot be used if there is a
Container Advice	 Do not cut, drill, grind, weld or perforn near containers. Containers, even tho emptied, can contain explosive vapou 	se that have been
Specific use(s)	: See additional references that provide for liquids that are determined to be so American Petroleum Institute 2003 (P Ignitions Arising out of Static, Lightnin National Fire Protection Agency 77 (R on Static Electricity). IEC/TS 60079-32-1: Electrostatic haza	tatic accumulators: rotection Against og and Stray Currents) or Recommended Practices

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	AU OEL
butane	106-97-8	STEL	1,000 ppm	ACGIH
ethane	74-84-0	TWA	0.1 mg/m3	AU OEL

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general

6/16 800001038098 ΑU

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Engineering measures

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Eye washes and showers for emergency use.

General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Personal protective equipment

Protective measures

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

AS/NZS 1337: Eye protectors for industrial applications. AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. AS/NZS 1715: Selection, use and maintenance of respiratory protective devices. AS/NZS 1716: Respiratory protective devices.

7 / 16 800001038098

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Select a filter suitable for organic gases and vapours [Type AX boiling point ≤65°C (149°F)].

Hand protection Remarks

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Neoprene rubber. Nitrile rubber.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye protection : Wear goggles for use against liquids and gas, combined with

face shield with chin guard.

Skin and body protection : Chemical and cold resistant gloves/gauntlets, boots, and

apron.

Thermal hazards : When handling cold material that can cause frost burns, wear

cryogenic gloves, safety hat and visor, cold resistant overalls (with cuffs over gloves and legs over boots) and heavy duty

boots e.g. leather for cold resistance.

Environmental exposure controls

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

vanour

Minimise release to the environment. An environmental

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid under pressure.

Colour : Not applicable Odour : Not applicable Odour Threshold Data not available

рΗ Not applicable Melting point/freezing point : Data not available

Initial boiling point and boiling : Data not available

range

: ca. -104 - -60 °C / -155 - -76 °F Flash point

Evaporation rate : Data not available Flammability (solid, gas) : Extremely flammable.

Typical 10 %(V) Upper explosion limit

Lower explosion limit : Typical 2 %(V)

Vapour pressure Not applicable

Density : 500 - 510 kg/m3 (15 °C / 59 °F)

Solubility(ies)

Water solubility : Not applicable Partition coefficient: n-: Data not available

octanol/water

Auto-ignition temperature : Data not available Decomposition temperature : Data not available

Viscosity

Viscosity, kinematic : Not applicable

Conductivity : Low conductivity: < 100 pS/m

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No, product will not become self-reactive.

Propane

 Version 0.0
 Revision Date 03.06.2020
 Print Date 03.06.2020

Chemical stability : Stable under normal conditions of use.

Possibility of hazardous

reactions

Conditions to avoid

: No. Hazardous, exothermical polymerization cannot occur.

: Heat, open flames, sparks and flammable atmospheres. In certain circumstances product can ignite due to static

electricity.

Incompatible materials

Hazardous decomposition

products

: Strong oxidising agents.

Hazardous decomposition products are not expected to form

during normal storage.

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

Exposure routes : Inhalation is the primary route of exposure although exposure

may occur through skin or eye contact. Inhalation is the primary route of exposure although exposure may occur

through skin or eye contact.

Acute toxicity

Product:

Acute oral toxicity

Remarks: Not applicable

Acute inhalation toxicity : LC 50 Rat: > 20000 ppmV

Exposure time: 4 h

Remarks: Low toxicity by inhalation.

Based on available data, the classification criteria are not met.

Acute dermal toxicity :

Remarks: Not applicable

Skin corrosion/irritation

Product:

Remarks: Not irritating to skin., Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Not irritating to eye., Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Remarks: Not a sensitiser.

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification
propane	No carcinogenicity classification.
butane	No carcinogenicity classification.
ethane	No carcinogenicity classification.

Reproductive toxicity

Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Remarks: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

STOT - repeated exposure

Product:

Remarks: Low systemic toxicity on repeated exposure., Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Not an aspiration hazard.

Further information

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Product:

Remarks: Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling., High gas concentrations will displace available air; unconsciousness and death may occur suddenly from lack of oxygen., Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment Incomplete ecotoxicological data are available for this product.

> The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

Physical properties indicate that petroleum gases will rapidly volatilise from the aquatic environment and that acute and

chronic effects would not be observed in practice.

Ecotoxicity

Product:

Toxicity to fish (Acute

toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

Based on available data, the classification criteria are not met.

Toxicity to crustacean (Acute

toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

Based on available data, the classification criteria are not met.

Toxicity to algae/aquatic

plants (Acute toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

Based on available data, the classification criteria are not met.

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to crustacean

(Chronic toxicity)

: Remarks: Data not available

: Remarks: LL/EL/IL50 > 100 mg/l

Toxicity to microorganisms

(Acute toxicity)

Practically non toxic:

Based on available data, the classification criteria are not met.

Persistence and degradability

Product:

Biodegradability : Remarks: Oxidises rapidly by photo-chemical reactions in air.,

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

Partition coefficient: n-

octanol/water

: Remarks: Data not available

Mobility in soil

Product:

Mobility : Remarks: Because of their extreme volatility, air is the only

environmental compartment that hydrocarbon gases will be

found.

Other adverse effects

no data available

Product:

Additional ecological

information

: In view of the high rate of loss from solution, the product is

unlikely to pose a significant hazard to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : It is the responsibility of the waste generator to determine the

toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be

established beforehand.

Do not dispose into the environment, in drains or in water

courses

Given the nature and uses of this product, the need for disposal seldom arises. If necessary, dispose by controlled combustion in purpose-designed equipment. If this is not

possible, contact the supplier.

Contaminated packaging : Drain container thoroughly.

After draining, vent in a safe place away from sparks and fire.

Residues may cause an explosion hazard.

Do not pollute the soil, water or environment with the waste

container.

Return part-used or empty cylinders to the supplier. For tanks seek specialist advice from suppliers.

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Local legislation

13 / 16 800001038098

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Remarks : Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or

national requirements and must be complied with.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number : 1965

Proper shipping name : HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.

(Propane)

Class : 2.1

Packing group : Not Assigned

Labels : 2.1 Hazchem Code : 2YE

International Regulations

IATA-DGR

UN/ID No. : UN 1965

Proper shipping name : HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.

(Propane)

Class : 2.1

Packing group : Not Assigned

Labels : 2.1

IMDG-Code

UN number : UN 1965

Proper shipping name : HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.

(Propane)

Class : 2.1

Packing group : Not Assigned

Labels : 2.1 Marine pollutant : no

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : No poison schedule number allocated

Scheduling of Medicines and

Poisons

14 / 16 800001038098

ΑU

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Product classified as per Work Health Safety Regulations – Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 2012 and SDS prepared as per national model code of practice for preparation of safety data sheet for Hazardous chemicals 2011 based on Globally Harmonized Classification version 3.

National Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011). Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG code). Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Full text of other abbreviations

Flam. Gas Flammable gases Press. Gas Gases under pressure

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN -United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Propane

Version 0.0 Revision Date 03.06.2020 Print Date 03.06.2020

Date of preparation or review : 03.06.2020

Further information

Other information : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AU / EN