

Section 1 - Identification of the Material and Supplier

Supplier	Newfield Group Ltd, 491 Waterloo Road, Christchurch 8042 Phone: 03 348 0799
Product Name	PERI™ SUPER-MAP GAS
Product Code	PSMGC, PSHBTT-MK, PPGT-MK, PPGBTT-MK, PSHPT-MK, PMPGT-MK, PAPT-MK, PMPT-MK, PAPT-MKIT
Chemical Nature	Propylene gas
Recommended Uses	Source of propane gas
Creation Date	November 2018
This Version Issued	March 2022 and is valid for 5 years from this date

EMERGENCY CONTACT NUMBER: +64 21 402 983

Section 2 - Hazards Identification

Hazardous Nature Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

Flame



Flammable Gases 1 H220 Extremely flammable gas.

Gas cylinder



Press. Gas L	H280	Contains gas under pressure; may explode if heated.
HSNO Classification	2.1.1A	- Flammable gas - high hazard.
Signal Word	Danger	
Hazard Statements	H220	Extremely flammable gas.
	H280	Contains gas under pressure; may explode if heated.
Precautionary Statements	P210	Keep away from heat/sparks/open flames/hot surfaces. 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.

Emergency Overview

Physical Description & Colour	Colourless gas.
Odour	No data.
Major Health Hazards	No significant risk factors have been found for this product.

Potential Health Effects

Inhalation	<p>Short Term Exposure: At very high concentrations can displace the normal air and cause suffocation from lack of oxygen. Symptoms of lack of oxygen include increase depth and frequency of breathing, dizziness, headache, nausea or loss of consciousness.</p> <p>Long Term Exposure: No data for health effects associated with long term inhalation.</p>
Skin Contact	<p>Short Term Exposure: Liquid can cause burns similar to frostbite.</p> <p>Long Term Exposure: No data for health effects associated with long term skin exposure.</p>
Eye Contact	<p>Short Term Exposure: Liquid can cause burns similar to frostbite.</p> <p>Long Term Exposure: No data for health effects associated with long term eye exposure.</p>
Ingestion	<p>Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.</p> <p>Long Term Exposure: No data for health effects associated with long term ingestion.</p>

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m3)	STEL (mg/m3)
Propylene	115-07-1	pure*	not set	not set

* commercially pure

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 in New Zealand and is available at all times. Have this SDS with you when you call.
Inhalation	Symptoms are likely due to lack of oxygen in bloodstream. If available, and victim is breathing, administer oxygen. If not breathing, apply mouth to mouth resuscitation. In any event, if victim is unconscious or shows any unusual symptoms, seek urgent medical attention.
Skin Contact	Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.
Eye Contact	No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.
Ingestion	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Extinguishing Media	In case of fire, use carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.
Fire Fighting	If a significant quantity of this product is involved in a fire, call the fire brigade. There is a significant danger of an explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus. Cool closed, undamaged containers exposed to fire with water spray.
Flash point	-108°C, closed cup
Upper Flammability Limit	13%
Lower Flammability Limit	2%
Autoignition Temperature	458°C
Flammability Class	Flammable Category 2 (GHS); Highly Flammable (AS1940).

Section 6 - Accidental Release Measures

Accidental Release

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Take suitable precautions e.g. use of non-sparking equipment to avoid creating sparks or flames which may ignite the spilled material. Leaking gases may form an explosion hazard. Any equipment capable of building an electrostatic charge should be electrically grounded. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage

Store in a cool (below 30°C), well ventilated area. Protect from direct sunlight. Make sure that surrounding electrical devices and switches are suitable. Check containers and valves periodically for leaks. If you keep more than 25kg of flammable gases, you are probably required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory Equipment	AS/NZS 1715
Protective Gloves	AS 2161
Occupational Protective Clothing	AS/NZS 4501 set 2008
Industrial Eye Protection	AS1336 and AS/NZS 1337
Occupational Protective Footwear	AS/NZS2210
SWA Exposure Limits	TWA (mg/m3) STEL (mg/m3)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation	This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
Eye Protection	Eye protection such as protective glasses or goggles is recommended when this product is being used.
Skin Protection	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.
Protective Material Types	There is no specific recommendation for any particular protective material type.
Respirator	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties

Physical Description & Colour	Colourless gas.
Odour	No data.
Boiling Point	-48°C to -23°C at 100kPa
Freezing/Melting Point	No specific data. Gas at normal temperatures.
Volatiles	Completely volatile at 100°C.
Vapour Pressure	756 kPa at 21°C
Vapour Density	1.5 at 15°C.
Specific Gravity	0.52
Water Solubility	Slightly soluble.
pH	No data.
Volatility	No data.
Odour Threshold	No data.
Evaporation Rate	No data.
Coeff Oil/Water Distribution	No data
Autoignition Temp	458°C

Section 10 - Stability and Reactivity

Reactivity	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed.
Incompatibilities	Strong oxidising agents.
Fire Decomposition	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation	Polymerisation reactions are unlikely; they are not expected to occur.

Section 11 - Toxicological Information

Toxicity	LD ₅₀ /LC ₅₀ Values Relevant for Classification: 74-98-6 Propane Inhalation LC ₅₀ /4 h 658 mg/l (rat)
Acute Health Effects	
Inhalation	Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache and nausea. High gas concentrations will displace available oxygen from the air; unconsciousness and death may occur suddenly from lack of oxygen.
Skin	Liquid can cause burns similar to frostbite. Cryogenic burns which may cause blistering or deeper tissue freezing.
Eye	Liquid can cause burns similar to frostbite.
Ingestion	Liquid can cause burns similar to frostbite.
Skin Corrosion / Irritation	Based on classification principles, the classification criteria are not met.
Serious Eye Damage / Irritation	Based on classification principles, the classification criteria are not met.
Respiratory or Skin Sensitisation	Based on classification principles, the classification criteria are not met.
Germ Cell Mutagenicity	Based on classification principles, the classification criteria are not met.
Carcinogenicity	Propylene is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.
Reproductive Toxicity	Based on classification principles, the classification criteria are not met.
Specific Target Organ Toxicity (STOT)	Single Exposure: Based on classification principles, the classification criteria are not met. Repeated Exposure: Based on classification principles, the classification criteria are not met.

Aspiration Hazard	Based on classification principles, the classification criteria are not met.
Chronic Health Effects	No information available.
Existing Conditions Aggravated by Exposure	Personnel with pre-existing chronic respiratory diseases should avoid exposure to this product.
Additional Toxicological Information	Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.	

Section 12 - Ecological Information

Insufficient data to be sure of status. Expected to not be an environmental hazard.

Section 13 - Disposal Considerations

Disposal	This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable in-house, consider controlled incineration, or contact a specialist waste disposal company.
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Section 14 - Transport Information

UN Number	NZS 5433 IMDG, IATA	UN1077 UN1077
Proper Shipping Name	NZS 5433 IMDG, IATA	PROPYLENE PROPYLENE
Dangerous Goods Class	NZS 5433 IMDG Class	2.1 2.1
Packing Group	NZS 5433 IMDG, IATA	Not applicable Not applicable
EMS Number	F-D,S-U	
Hazchem Code	2YE	
Limited Quantities	0	
Excepted quantities (EQ)	E0	
Portable Tanks & Bulk Containers - Instructions	T50	

Section 15 - Regulatory Information

HSNO Approval Code / Group Standard Propylene: HSR001011
 New Zealand Inventory of Chemicals All ingredients are listed.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

ACRONYMS:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CAS Number	Chemical Abstracts Service Registry Number
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
STEL	Short Term Exposure Limit
SWA	Safe Work Australia, formerly ASCC and NOHSC
TWA	Time Weighted Average
UN Number	United Nations Number

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company so we can attempt to obtain additional information from our suppliers.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.