

## PROPANEDIOL – SAFETY DATA SHEET

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

#### PRODUCT IDENTIFIER

TRADE name	Propanediol
Other names	1,3-Propanediol, Trim ethylene glycol
Uses	For professional users only. Cosmetics, Solvent, Fragrances, Personal care, Washing and cleaning products (including solvent based products).

#### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd
Address	626A Rosebank Road, Avondale, Auckland 1026 New Zealand
Telephone	+649 8135619
Website	www.pureingredients.co.nz
Email	compliance@pureingredients.co.nz

#### EMERGENCY TELEPHONE NUMBER

CHEMCALL	0800 CHEMCALL / 800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	NZ Poisons Centre 0800 POISON (0800 764 766)

### SECTION 2 HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005. Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Classified as Hazardous according to the criteria of the New Zealand HSNO Act Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005. HSNO Classification - ERMA Number: HSR006355 Haz Classes: 6.1E(oral)	
<b>Signal Word</b>	Warning	
<b>Hazard Statement</b>	H303 May be harmful if swallowed H305 May be harmful if swallowed and enters airways H333 May be harmful if inhaled	H304 May be fatal if swallowed and enters airways H313 May be harmful in contact with skin
<b>Precautionary Statements</b>	Prevention: P102 Keep out of reach of children. P104 Read Safety Data Sheet before use Response: P101 If medical advice is needed, have product container or label at hand. P331 Do NOT induce vomiting. P304 + P312 If inhaled: Call a POISON CENTRE/or Doctor if you feel unwell. P301 + P310 If swallowed: Immediately call a POISON CENTRE/or Doctor if you feel unwell.	

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Liquid	<b>CAS No</b>	504-63-2
<b>Name</b>	Propane-1,3-diol	<b>Proportion</b>	>99.8%
<b>Other information</b>	Commercially pure. May include small quantities of materials due to manufacturing or reaction processes.		

### SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

<b>Inhalation</b>	No hazards which require special first aid measures.
<b>Skin contact</b>	No hazards which require special first aid measures.
<b>Eye contact</b>	Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.
<b>Ingestion</b>	No hazards which require special first aid measures.
<b>First Aid Measures</b>	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 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have the SDS with you when you call.

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## SECTION 5 FIREFIGHTING MEASURES

<b>Fire-fighting Measures</b>	Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire. Wear self contained breathing apparatus for fire fighting if necessary.
<b>Suitable Extinguishing media</b>	Water, foam, dry chemical, carbon dioxide (CO <sub>2</sub> ).
<b>Specific Hazard</b>	Exposure to decomposition products may be a hazard to health.
<b>Decomposition Temp</b>	>129°C

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Method and materials for containment and cleaning up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Environmental Precautions</b>	Do not flush into surface water, sanitary sewer or ground water system.

## SECTION 7 HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	No special precautions are needed in handling this material
<b>Conditions for Safe Storage including incompatibilities</b>	Store in a cool, dry place. Keep container closed to prevent contamination. Store bulk quantities under nitrogen blanket. Keep away from heat, sparks and flames.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Controls, Personal Protection</b>	The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.
<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Respiratory Protection</b>	A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
<b>Eye Protection</b>	Safety glasses with side shields.
<b>Body Protection</b>	Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants and jacket.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid	<b>Solubility in water</b>	>1.000 g/l
<b>Colour</b>	Transparent	<b>Specific Gravity</b>	1.053
<b>Odour</b>	Slight	<b>Vapour Pressure</b>	0.1067 hPa at 20°C 0.58 hPa at 25°C 13.0656 hPa at 100°C
<b>Melting Point</b>	-24.6°C	<b>Dynamic Viscosity</b>	52 mPa.s at 20°C
<b>Boiling Point</b>	214°C	<b>Decomposition Temp</b>	>129°C
<b>Flash Point</b>	129°C (COC)	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>pH</b>	Not available	<b>Explosion Limit - Upper</b>	Not available
<b>Vapour density (air=1)</b>	Not available	<b>Explosion Limit - Lower</b>	Not available
<b>Evaporation Rate</b>	Not available		
<b>Auto-Ignition Temp</b>	Not available		

## SECTION 10 STABILITY AND REACTIVITY

<b>Stability &amp; Reactivity</b>	Stable at normal temperatures and storage conditions
<b>Conditions to avoid</b>	Temperature > 129°C
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids.
<b>Decomposition Products</b>	No decomposition if stored normally.
<b>Hazardous Polymerization</b>	Will not occur

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## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	ORAL: LD50, rat: 15800 mg/kg, Method: OECD Test Guideline 401, Central nervous system effects. DERMAL: No data available. INHALATION: LC50/4 h/Rat(dust/mist): > 5.0 mg/l, Mist. Respiratory Sensitization: No data available. Skin Sensitization: Maximisation Test, Species: Guinea pig, Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406
<b>Germ Cell Mutagenicity</b>	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
<b>Reproductive Toxicity</b>	No toxicity to reproduction. Teratogenicity: No toxicity to reproduction.
<b>Carcinogenicity</b>	No data available.
	STOT-single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT-repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration Hazard: No aspiration toxicity classification. Serious eye damage/irritation: Species: Rabbit, Result: No eye irritation, Classification: Not classified as irritant, Method: OECD Test Guideline 405. Skin corrosion/irritation Other Information: Species: Rabbit, Result: No skin irritation, Classification: Not classified as irritant, Method: OECD Test Guideline 404. Other Information: Repeated dose toxicity: Inhalation, rat: no toxicologically significant effects were found. Teratogenicity: Animal testing showed no developmental toxicity.

## SECTION 12 ECOLOGICAL INFORMATION

<b>Persistence and Biodegradability</b>	Exposure time: 28 d Result: Biodegradable	Biodegradation: 71 %
<b>Mobility</b>	No data available.	
<b>Bioaccumulative Potential</b>	Bioaccumulation is unlikely	
<b>Other adverse effects</b>	No data available.	
<b>Acute Toxicity</b>	FISH: LC50/96 h/Pimephales promelas (fathead minnow): > 9,720 mg/l Method: OECD Test Guideline 203 Daphnia: EC50/48 h/Daphnia magna (Water flea): 7,417 mg/l Method: OECD Test Guideline 202 Algae: ErC50/72 h/Desmodesmus subspicatus (green algae): > 10,000 mg/l Method: OECD Test Guideline 201 NOEC/72 h/Desmodesmus subspicatus (green algae): 500 mg/l Method: OECD Test Guideline 201	

## SECTION 13 DISPOSAL CONSIDERATION

<b>Disposal Consideration</b>	Dispose of waste according to applicable local, state and federal regulations.
<b>Waste Disposal</b>	Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial and local regulations.

## SECTION 14 TRANSPORT INFORMATION

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005.
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## SECTION 15 REGULATORY INFORMATION

<b>Regulatory Information</b>	Not classified as hazardous according to criteria of NOHSC. All components of this material are listed on or exempt from the New Zealand Inventory of Chemicals (NZIoC).
<b>Poison Schedule</b>	Not Scheduled
<b>HSNO Approval Number</b>	HSR006355

## SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Revision: 01 – 22/ 07/ 2019 Propanediol (ZAMEA) SA084 0123092016

Version: 02 Revision Date: 04/05/2020: PIL SDS Change of address - no changes to SDS.

Version 03 Revision Date: 16/12/2021 - minor update in Section 2.