

## GLYCERINE REFINED, NON-PALM – SAFETY DATA SHEET

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

#### PRODUCT IDENTIFIER

TRADE name	Refined Glycerine 99.7% USP Grade (Non-Palm) Soybean/Rapeseed Derived
Other names	1, 2, 3-Propanetriol, Glycerin, Glycerol (vegetable source); Glycyl Alcohol
Uses	As emulsifier, emollient, plasticiser, humectant, sweetener, antifreeze, in surface coatings and paints, drug and food products. Intermediate for glycerol derivatives.
Chemical Formula	C3H8O3
Chemical Name	Glycerine

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

Registered distributor company name	PureNature
Address	626A Rosebank Road, Avondale, Auckland 1026 New Zealand
Telephone	+649 8135619
Website	www.purenature.co.nz
Email	info@purenature.co.nz

#### EMERGENCY TELEPHONE NUMBER

Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766 NZ National Poisons Center

### SECTION 2 HAZARDS IDENTIFICATION

<b>HSNO Classifications:</b> Classified as Non-Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms Legislation.	
	Non-hazardous. Health injuries are not known or expected under normal use. Adverse ecological effects are not known or expected.
<b>Precautionary Statements</b>	
<b>PREVENTION</b>	Wash hands thoroughly after handling. Wear gloves and eye/face protection.
<b>RESPONSE</b>	If irritation occurs: seek medical attention.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	Glycerine	<b>Chemical Entity</b>	1,2,3-Propanetriol
<b>CAS No</b>	56-81-5	<b>Proportion %</b>	99.0 – 100.0 %

### SECTION 4 FIRST AID MEASURES

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

<b>Inhalation:</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attentions, if needed.
<b>Skin contact:</b>	Remove contaminated clothing. Wash off with soap and plenty of water. Get medical attention if irritation develops or persists. If skin irritation occurs.: Get medical advice/attention.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical attentions if irritation develops or persists. Get medical attention if irritation develops and persists.
<b>Ingestion:</b>	Remove material from mouth. Drink plenty of water. No typical symptoms and effects known. However, if large amount swallowed or symptoms develop, get medical attention. Do not induce vomiting.
<b>Note to Physician</b>	Treat symptomatically based on individual reactions of patient and judgement of doctor. General Advice: If you feel unwell, seek medical advice (show the label where possible) Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before use.
<b>Medical conditions aggravated by Exposure</b>	No information available on medical condition which are aggravated from exposure to this product.

## SAFETY DATA SHEET

## SECTION 5 FIREFIGHTING MEASURES

<b>General Measures</b>	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Flammability Conditions</b>	Product is a combustible liquid.
<b>Extinguishing Media</b>	In case of fire, appropriate extinguishing media include water, Water fog, water spray, foam, dry powder, carbon dioxide (COS) and alcohol resistant foam.
<b>Fire and Explosion Hazard</b>	Contact of glycerine with strong oxidising agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.
<b>Hazardous products of Combustion</b>	During burning poisonous acrolein may be formed.
<b>Special Fire Fighting Instructions</b>	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
<b>Personal Protective Equipment</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.
<b>Flash Point</b>	>198.99°C PMCC
<b>Lower Explosion Limit</b>	No Data Available
<b>Lower Explosion Limit</b>	No Data Available
<b>Auto ignition Temperature</b>	~ 400°C
<b>Hazchem Code</b>	No Data Available

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>General response Procedure</b>	Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Use clean, non-sparking tools and equipment.
<b>Clean Up Procedures</b>	Large Spills: Dike for ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for reuse.
<b>Containment</b>	Stop leak if safe to do so.
<b>Decontamination</b>	Following product delivery, flush area with water.
<b>Environmental Precautionary Measures</b>	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management
<b>Evacuation Criteria</b>	Evacuate all unnecessary personnel.
<b>Evacuation Criteria</b>	Personnel involved in the clean up should wear full protective clothing as listed in section 8.

## SECTION 7 HANDLING AND STORAGE

<b>Handling</b>	Wear protective clothing when handling this product. Avoid generating dust. Use appropriate respiratory protection. Avoid contact with skin and eyes. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice.
<b>Storage</b>	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Avoid contact with strong oxidising agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate. This product is classified as a 'C2' Combustible liquid for the purpose of storage and handling in accordance with the requirement of AS1940.
<b>Container</b>	Store in original packaging as approved by manufacturer. Store in tight containers to prevent moisture pickup from air. Can be stored in aluminium, stainless steel, fiberglass or resin lined steel vessels.

## SAFETY DATA SHEET

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	The following exposure standard has been established by the Australian Safety and Compensation Council ASCC Glycerin (mist) CAS no: 56-81-5 TWA = 10mg/m3 NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5day working week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
<b>Exposure Limits</b>	No Data Available.
<b>Biological Limits</b>	NO information available on biological limit values for this product.
<b>Engineering Measures</b>	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation may be necessary if working at elevated temperatures or in enclosed area.
<b>Personal Protection Equipment</b>	RESPIRATOR: None required for ambient temperature, although an appropriate air-purifying respirator should be used if a mist, vapour or dust is generated. An approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator WARNING: Air purifying respirator do not protect workers in oxygen-deficient atmospheres (AS1715/1716). EYES: None required, although eye protection is recommended as part of good industrial hygiene AS1336/1337). HANDS: None required with normal use (AS2161). CLOTHING: Normal work clothing and safety footwear (AS3765/2210).
<b>Work Hygienic Practices</b>	No Data Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Specific Heat</b>	No Data Available
<b>Appearance</b>	Clear viscous liquid	<b>Molecular Weight</b>	No Data Available
<b>Odour</b>	Generally odourless	<b>Octanol Water Coefficient</b>	No Data Available
<b>Colour</b>	Water white	<b>Particle Size</b>	No Data Available
<b>pH</b>	No Data Available	<b>Partition Coefficient</b>	-1.8
<b>Vapour Pressure</b>	<0.01 mmHg @50°C	<b>Saturated Vapour Concentration</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available	<b>Vapour Temperature</b>	No Data Available
<b>Boiling Point</b>	>=290°C	<b>Viscosity</b>	1410mPa.s @20°C
<b>Melting Point</b>	18°C	<b>Volatile Percent</b>	No Data Available
<b>Freezing Point</b>	No Data Available	<b>VOC Volume</b>	No Data Available
<b>Solubility</b>	Soluble	<b>Additional Characteristics</b>	No Data Available
<b>Specific Gravity</b>	1.26	<b>Potential for Dust Explosion</b>	Product is liquid.
<b>Flashpoint</b>	>198.99°C		
<b>Auto Ignition Temp</b>	~400°C	Fast or Intensely Burning Characteristics	No Data Available
<b>Evaporation Rate</b>	No Data Available	Flame Propagation or Burning Rate of Solid Materials	No Data Available
<b>Bulk Density</b>	No Data Available	Non-Flammables that could contribute unusual hazards to a fire	No Data Available
<b>Corrosion Rate</b>	No Data Available	Properties that may initiate or contribute to fire intensity	No Data Available
<b>Decomposition Temperature</b>	No Data Available	Reactions that release gases or vapours	No Data Available
<b>Density</b>	No Data Available	Release of invisible flammable vapours and gases	No Data Available

## SAFETY DATA SHEET

## SECTION 10 STABILITY AND REACTIVITY

<b>General Information</b>	Combustible liquid. Physical/Chemical hazards: Contact of glycerine with strong oxidising agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.
<b>Chemical stability</b>	Stable at ambient temperature and under normal conditions of use.
<b>Conditions to avoid</b>	Avoid temperature exceeding 200 Deg C as decomposition may occur.
<b>Materials to avoid</b>	Contact of glycerine with strong oxidising agents such as Nitric Acid or other strong acids, Chromium trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.
<b>Hazardous decomposition</b>	Dangerous Decomposition Product – Acrolein (>280 Deg C)
<b>Hazardous Polymerization</b>	Hazardous Polymerisation has not been reported.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>General Information</b>	TOXICITY DATA: ORAL LD50 >200000 mg/kg (rat) Inhalation L(Ct)50 4655 mg/min/litre (rat) Dermal LD50 45 ml/kg (guinea pig) Germ cell mutagenicity: Ames test Result: Negative Species: Salmonella Typhimurium (Salmonella enterica)
	Eye irritant: Accidental exposure to the eyes will cause only a mild but transient irritation. Ingestion: Unlikely to be harmful unless excessive amount Inhalation: Not applicable at ambient temperature. Glycerine mist may be irritative to respiratory tract. Skin Irritant: Unlikely to be irritant. Heated product may cause thermal burns if contacted.
<b>Carcinogen Category</b>	No Data Available

## SECTION 12 ECOLOGICAL INFORMATION

<b>Eco-toxicity</b>	1,2,3 Propanetriol (56815): LC50 rainbow trout, donaldson trout (Oncorhynchus mykiss): 51000 – 57000 mg/l 96.00 hours Ecotoxicity Components of this products have been identified as having potential environmental concerns. Environmental effects: As environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence / Degradability</b>	Percent degradation (Aerobic biodegradation-ready) Result: readily biodegradable Species: Activated sludge, industrial Test Duration: 24 hours
<b>Mobility</b>	Calculation result: 0.000000006 atm m3/mol@25°C
<b>Environmental Fate</b>	No Data Available
<b>Bio-Accumulation Potential</b>	Octanol/water partition coefficient log Kow = -1.75
<b>Environmental Impact</b>	No Data Available

## SECTION 13 DISPOSAL CONSIDERATION

**13.1 General Information:** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

**13.2 Special Precautions for Land Fill:** Contact a specialist disposal company or the local waste regulator for advice.

**SAFETY DATA SHEET**

**SECTION 14 TRANSPORT INFORMATION**

**Land Transport (New Zealand)**

NZS5433

Proper Shipping Name: Glycerine

Class / Subsidiary Risk(s) / UN Number/ Hazchem/ Pack Group/ Special Provision: No Data Available

**Sea Transport**

IMDG

Proper Shipping Name: Glycerine

Class / Subsidiary Risk(s) / UN Number/ Hazchem/ Pack Group/ Special Provision / EMS: No Data Available

Marine Pollutant: No

**Airport Transport**

IATA

Proper Shipping Name: Glycerine

Class / Subsidiary Risk(s) / UN Number/ Hazchem/ Pack Group/ Special Provision: No Data Available

**SECTION 15 REGULATORY INFORMATION**

**General Information:** No Data available

**Poisons Schedule (Aust):** Not Scheduled

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR006678

**National/ Regional Inventories**

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Listed
<b>Canada (DSL)</b>	Not determined
<b>China (IECS)</b>	Listed
<b>Europe (EINECS)</b>	200-289-5
<b>Europe (REACH)</b>	Not determined
<b>Japan (ENCS/METI)</b>	Listed
<b>Korea (KECI)</b>	KE-29297
<b>Malaysia (EHS Register)</b>	Not determined
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Listed
<b>Switzerland (Giftliste 1)</b>	Not determined
<b>Switzerland (Inv of NtSub)</b>	Not determined
<b>Taiwan (NCSR)</b>	Listed
<b>USA (TSCA)</b>	Listed

**SECTION 16 OTHER INFORMATION**

The information contained in this Safety Data Sheet is obtained from current and reliable sources. PureNature 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: 00 – 17/ 01/ 2018 Glycerine Refined, Non-Palm SA151 03010215

Version: 01 Revision Date: 04/05/2020: PIL SDS Change of address - no changes to SDS.