

**LIQUID GERMALL PLUS – SAFETY DATA SHEET**
**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**
**PRODUCT IDENTIFIER**

Product name (as labelled)	Liquid Germall Plus
Uses	Preservative

**DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

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

**EMERGENCY TELEPHONE NUMBER**

Association / Organisation	0800 CHEMCALL / 800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766

**SECTION 2 HAZARDS IDENTIFICATION**

**HSNO Hazard Classification:** 6.1E (aspiration), 6.1E (inhalation), 6.1E (oral), 6.3B, 6.5B (contact), 9.1C

Hazardous Nature: This product is classified as hazardous under HSNO criteria.



Pictogram:

Signal Word: **WARNING**

**HAZARD STATEMENT:**

H303 May be harmful if swallowed.  
H333 May be harmful if inhaled.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H305 May be harmful if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects

**PREVENTION:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P261 Avoid breathing mist/vapours/spray.  
P273 Avoid release to the environment.  
P272 Contaminated work clothing should not be allowed out of the workplace

**RESPONSE:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.  
P321 Specific treatment (see advice on this label).  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P304+P312 IF INHALED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

	CAS No.
propylene glycol USP	57-55-6
diazolidinyl urea	78491-02-8
3-iodo-2-propynyl butyl carbamate	55406-53-6

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## SECTION 4 FIRST AID MEASURES

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

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Skin Contact	Wash with soap and water.
Inhalation	No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
Ingestion	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

## SECTION 5 FIREFIGHTING MEASURES

Flash Point	Not determined
Extinguishing Media	All standard firefighting media
Special Protective Equipment	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures protective equipment	Use appropriate protective equipment.
Procedure for Cleaning/Absorption	Contain spill with sand or other inert materials.

## SECTION 7 HANDLING AND STORAGE

Handling	Avoid contact with eyes. Wash thoroughly with soap and water after handling. May produce sensitization to damaged exposed skin (as sold) (See Toxicological Section 11). Wear appropriate PPE.
Storage	Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight. Hygroscopic Material. Keep containers closed tightly when not in use.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Use in a well-ventilated area.
Respiratory Protection	Use in a well-ventilated area.
Hand Protection	Use gloves as a standard industrial handling procedure.
Eye Protection	Chemical goggles; also wear a face shield if splashing hazard exists.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear liquid	Boiling Point (°F):	Not determined
Colour	50 Max	Melting Point/Freezing Point(°F)	Not determined
Odour	None or characteristically mild	Vapor Pressure:	Not determined
pH	6.5-8 (1% solution)	Solubility	Soluble in Water

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## SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of handling, use and transportation
Hazardous Polymerization	Will not occur
UK OES/MEL	None anticipated

## SECTION 11 TOXICOLOGICAL INFORMATION

## Toxicity Test:

Acute Oral LD50 (mg/kg): 2,570 (Diazolidinyl urea)

1,470 (IPBC)

Acute Dermal LD50 (mg/kg): >2,000 (Diazolidinyl urea)

>2,000 (IPBC)

Acute Inhalation LC50 (mg/l): 1.3 (rat, 50% aqueous solution)

670 (IPBC dust)

630 (IPBC as liquid aerosol)

Sensitization: Non-sensitizing (0.5% aqueous solution) (Human RIPT) (Diazolidinyl urea)

Non-sensitizing to guinea pigs (0.1% aqueous solution) (Diazolidinyl urea)

Slight sensitizer to guinea skin in Guinea Pig Maximization Test (5% aqueous solution injection) (Diazolidinyl urea)

Non-sensitizing (0.1% aqueous solution) (Jiemorel Plus)

Mutagenicity: Non-mutagenic (Ames assay, Mouse micronucleus test, Rat hepatocyte DNA repair assay) (IPBC)

Non-mutagenic (Ames assay). (Diazolidinyl urea)

Non-mutagenic (In-Vitro Chromosomal Aberration- Chinese hamster ovary cells). (Diazolidinyl urea)

Non-mutagenic (In-Vitro rat hepatocytes/DNA Repair Assay) (Diazolidinyl urea).

Reproductive/Developmental Toxicity:

Rat 42 weeks; 120, 300, 750 mg/kg/day NOAEL= 120 mg/kg/day (IPBC)

Rat 9 days; 20, 50, 125 mg/kg/day NOAEL= 50 mg/kg/day (IPBC)

Rat 14 weeks; 120, 300, 750 mg/kg/day NOAEL= 120 mg/kg/day (P & F1 generations) (IPBC)

Mouse 9 days; 20, 50, 125 mg/kg/day NOAEL= 50 mg/kg/day (IPBC)

Mouse 9 days; 20, 50, 125 mg/kg/day NOAEL 125 mg/kg/day (Maternal and Reproductive toxicity) (IPBC)

Mouse 9 days; 20, 50, 125 mg/kg/day NOAEL for Maternal= 50 mg/kg/day & 125 mg/kg/day for Repro (IPBC)

Rat 9 days; 20, 50 125 mg/kg/day NOAEL= 50 mg/kg/day for Maternal & Repro (IPBC).

Teratogenicity: Non-teratogenic in rats dosed orally with 125, 250 or 500 mg/kg day.

Nonteratogenic in rats receiving dermally 30-300 mg/kg/day from days 6-15 of gestation. (Diazolidinyl urea)

Carcinogenicity: No evidence of carcinogenic potential. Rat 100 weeks; 20, 40,80 mg/kg/day NOAEL=20 mg/kg/day (IPBC)

Skin Irritation: Non-irritating to rabbit (5% aqueous solution) and guinea pig skin (100% wettable powder) (Diazolidinyl urea)

Non-irritating to human skin (0.5% aqueous solution, Diazolidinyl urea)

Slightly irritating to rabbit skin (0.0125% IPBC in sunscreen formulation)

Practically non-irritating to rabbit skin (IPBC)

Non irritating (Human RIPT). (1.0% aqueous solution, Diazolidinyl urea & IPBC)

Eye Irritation: Mildly irritating to rabbit eye (50% aqueous solution) (Diazolidinyl urea)

Non-irritating to rabbit eye (1 & 5 % aqueous solutions) (Diazolidinyl urea)

Moderately irritating to rabbit eye with washout

Severely irritating to rabbit eye without washout (IPBC)

Other Information: Phototoxicity: Non-phototoxic (0.015% IPBC)

Non-photoallergic (0.2ml, 100% IPBC)

Phototoxicity: Non-phototoxic (0.5% Diazolidinyl urea)

Comedogenicity; Non-Comedogenic (0.1% IPBC in white cream, 0.01% moisturizing gel).

Rat 28 day: 60, 125, 250 mg/kg/day; NOAEL= 60 mg/kg/day (IPBC)

Rat 90 day: 20, 50, 125 mg/kg/day; NOAEL= 20 mg/kg/day (IPBC)

Rat 90 day: 20, 50, 125 mg/kg/day; NOAEL (Females)= 125 mg/kg/day; NOAEL (Males)= 50 mg/kg/day (IPBC)

Subchronic Oral Toxicity: Rat 90; 10, 25, 100 mg/kg/day - no observed adverse effect level (NOAEL) 100 mg/kg/day (Diazolidinyl urea)

28day; 100, 300, 900 mg/kg. no observed adverse effect level (NOAEL) 100 mg/kg/day (Diazolidinyl urea)

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## SECTION 12 ECOLOGICAL INFORMATION

Biodegradability	Not determined.
Aquatic Toxicity	Daphnia Magna, 48 hr. EC50: 34.9 mg/L; NOEL 21.6 mg/L Bluegills, 96 hr. LC50: >100 mg/L; NOEL 60mg/L Rainbow trout, 96 hr. LC50: >100 mg/L; NOEL 100 mg/L Acute Oral LD50: >2,250 mg/kg (Northern bobwhite). 5-Day subacute dietary studies produced no evidence of toxicity at concentrations up to 5,620 ppm. (Diazolidinyl urea)

## SECTION 13 DISPOSAL CONSIDERATION

**Disposal of Waste Method:** Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

## SECTION 14 TRANSPORT INFORMATION

Land Transportation:  
 DOT (Non-Bulk):  
 UN/NA Number: NONE  
 DOT Shipping Name: NOT REGULATED  
 Hazard Class: NONE  
 DOT (Bulk):  
 UN/NA Number: NONE  
 DOT Shipping Name: NOT REGULATED  
 Air Transportation (IATA):  
 UN Number: NONE  
 Proper Shipping Name: NOT REGULATED  
 Hazard Classification: NONE  
 Sea Transportation (IMO):  
 UN/ID Number: NONE  
 Proper Shipping Name: NOT REGULATED  
 Hazard Classification: NONE  
 ADR:  
 UN: NONE  
 Proper Shipping Name: NOT REGULATED  
 CLASS: NONE

## SECTION 15 REGULATORY INFORMATION

Classification:  
 Risk Phrases: R52 - Harmful to aquatic organisms.  
 R53 - May cause long-term adverse effects in the aquatic environment.  
 Safety Phrases: S57 - Use appropriate containment to avoid environmental contamination.  
 S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.  
 TSCA Inventory List: This product and/or its components is listed on TSCA.  
 California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List:  
 None of the components of this product is listed on CALPROP.  
 Canada DSL Inventory List: This product and/or its components is listed on DSL.  
 Canada NDSL Inventory List: This product and/or its components is not listed on NDSL.  
 EU EINECS List: This product and/or its components is listed on EINECS.  
 ELINCS: This product and/or its components is not listed on ELINCS.  
 Germany VCI Assigned Classification into Water Endangering Classes (WGK) List:  
 This product and/or its components is not listed on WGK.  
 Japan Inventory of Existing & New Chemical Substances (ENCS):  
 This product and/or its components is not listed on ENCS.  
 Australia Inventory of Chemical Substances (AICS) List:  
 This product and/or its components is listed on AICS.

## 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.

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