



Safety Data Sheet

Section 1: Identification

Trade Name: Liquid Germall Plus

Synonyms: Propylene Glycol; Diazolidinyl Urea; Iodopropynyl Butylcarbamate (inci name)

Company: Soapgoods Inc

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Section 2: Hazard(s) Identification

EU Classification: This preparation is classified as dangerous according to European Union Legislation

R-phrase(s): R52 - Harmful to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

Hazard Summary

Target Organs: 矜Eyes

矜Skin

Primary Routes of Entry: Eyes. Skin.

Acute Health Hazard: Mild eye irritant

Mild skin irritant

Chronic Health Hazard: None known

Symptoms of Overexposure

Eye Contact: Mild eye irritant

Skin contact: Mild skin irritant

Ingestion: Not hazardous

Section 3: Composition/Information on Ingredients

Chemical Name	Weight %	Directive 67/548/EECREACH	Classification 2006/1907/EC	ECC Number
1,2-Propanediol 57-55-6	60	NA	NA	200-338-0

Urea, N-(1,3-bis(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl)-N,N'-bis(hydroxymethyl) 78491-02-8	40	NA	NA	278-928-2
Carbamic acid, butyl-, 3-iodo-2-propynyl ester 55406-53-6 0.4	0.4	NA	NA	259-627-5

Section 4: First-Aid Measures

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Not hazardous by inhalation. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Get medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: All types

Combustion/Explosion Hazards: None Known

Special Protective Equipment For Fire-Fighters: Wear self-contained breathing apparatus and protective suit.

Section 6: Accidental Release Measures

Personal Precautions: Wear suitable protective equipment.

Environmental Precautions: The product should not be allowed to enter drains, water courses or the soil.

Methods for Cleaning Up: Soak up with inert absorbent material.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep in a dry, cool place. Keep away from direct sunlight. Hygroscopic, keep container closed when not in use

Section 8: Exposure Controls/Personal Protection

Engineering Measures: Use only in well-ventilated areas.

Respiratory Protection: Use only in well-ventilated areas.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Environmental Controls: Not determined.

Components:	German Recommended Exposure Limits (MAK):	UK Workplace Exposure Limits (WELs):	Belgium - Recommended Exposure Limits:	Italy - Recommended Exposure Limits:	France - Recommended Exposure Limits:
1,2-Propanediol 57-55-6 (60)	Not determined	150 ppm TWA total particulate and vapour 474 mg/m3 TWA total particulate and vapour 10 mg/m3 TWA particulate 450 ppm STEL total particulate and vapour 1422 mg/m3 STEL total particulate and vapour 30 mg/m3 STEL particulate	Not Determined	Not Determined	Not Determined
Urea, N-(1,3-bis(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl)-N,N'-bis(hydroxymethyl) 78491-02-8 (40)	Not determined	Not determined	Not Determined	Not Determined	Not Determined
Carbamic acid, butyl-, 3-iodo-2-propynyl ester 55406-53-6 (0.4)	0.01 ppm MAK 0.1 mg/m3 MAK 0.02ppmPeak 0.2mg/m3Peak	Not determined	Not determined	Not determined	Not determined

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Colorless

Odor: Characteristic

pH: Not determined

Specific Gravity: 1.15-1.25

Flash Point (°F): 210°F (98.89°C)

Boiling Point (°F): 378°F (192.22°C)

Melting/Freezing Point (°F): -83°F (-63.89°C)

Vapor Pressure: 0.072 mmHg @20°C

Solubility: Soluble in water

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known

Materials to Avoid: None known

Hazardous decomposition

products: None known

Section 11: Toxicological Information

Toxicity Test:

Acute Oral Toxicity (LD50): 2,570 (Diazolidinyl urea)

1,470 (IPBC)

20,000 (Propylene Glycol)

Acute Dermal Toxicity (LD50): >2,000 (Diazolidinyl urea)

>2,000 (IPBC)

31,000 (Propylene Glycol)

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

670 (IPBC dust)

630 (IPBC as liquid aerosol)

Eye Irritation: Mildly irritating to rabbit eye (Propylene glycol)

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)

Skin Irritation: Slightly irritating to rabbit skin (0.0125% IPBC in sunscreen formulation)
Practically non-irritating to rabbit skin (IPBC)
Non-irritating to human skin (0.5% aqueous solution, Diazolidinyl urea)
Non-irritating to rabbit (5% aqueous solution) and guinea pig skin (100% wettable powder) (Diazolidinyl urea)
Non irritating (Human RIPT). (1.0% aqueous solution, Diazolidinyl urea & IPBC)

Sensitization: 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) (Germall 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).
Non-mutagenic (Propylene Glycol)

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)
Non-teratogenic (Propylene Glycol)

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Information Subchronic Oral Toxicity: Rats fed diets containing 0-50,000 ppm of Propylene Glycol for 15 weeks. The Propylene Glycol in the feed corresponded to a dose of 2.5g/kg/day.

No significant differences were found between the control & Propylene Glycol dosed animals.

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)

Section 12: Ecological Information

Persistence and Degradability: Not determined.

Ecotoxicity: 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)

Bioaccumulative Potential: Not determined

Mobility: Not determined

Section 13: Disposal Considerations

Waste Disposal Methods: Dispose of in accordance with local regulations.

Section 14: Transport Information

Land Transport:

DOT (Non-Bulk): Not regulated DOT

DOT (Bulk):

Air Transport (IATA): Not regulated IATA

Sea Transport (IMO): Not regulated IMDG

ADR: Not regulated ADR

Section 15: Regulatory Information

Classification:

R-phrase(s): R52 - Harmful to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

S-phrase(s): S57 - Use appropriate container to avoid environmental contamination.

S61 - Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Inventories	Status
TSCA	Listed
DSL	Listed
NDSL	
ENCS	
AICS	Listed
EINECS	Listed
ELINCS	
NZIoC	Listed
KECI	Listed
PICCS	Listed
IECSC	Listed

California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Germany VCI Assigned Classification into Water Endangering Classes (WGK) List:

Components:	Germany VCI Assigned Classification into Water Endangering Classes (WGK) List:
1,2-Propanediol 57-55-6	Annex 2: 280
Carbamic acid, butyl-, 3-iodo-2-propynyl ester 55406-53-6	Annex 3: 5207

California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Germany VCI Assigned Classification into Water Endangering Classes (WGK) List:

Section 16: Other Information

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