Material Safety Data Sheet

20002D

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GERMABEN® II

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Sutton Laboratories
116 Summit Ave.
Chatham, NJ 07928

Emergency Telephone: CHEMTREC: 1-800-424-9300 (Spill Related Emergencies)
PROSAR: 1-800-241-7439 (Health Related Emergencies)

Prepared By: Product Stewardship

Product Id: 20002D

Product Name: GERMABEN® II

CAS Registry Number: 57-55-6; 78491-02-8; 99-76-3; 94-13-3

CAS Registry Name: 1,2-Propanediol; Urea, N-(1,3-bis(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl)-N,N'-bis(hydroxymethyl)-; Benzoic acid, 4-hydroxy-, 1-methyl ester; Benzoic acid, 4-hydroxy-, propyl ester

Synonyms: Propylene Glycol; Diazolidinyl Urea; Methylparaben; Propylparaben (INCI NAMES)

Product Use: Preservative

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components:	Weight %	ACGIH Threshold Limit Values Data - Time Weighted Average (TWA):	OSHA Specifically Regulated Substances Data - Time Weighted Average (TWA):
1,2-Propanediol 57-55-6	56	No TLV/TWA Established	No TLV/TWA Established
Urea, N-(1,3-bis(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl)-N,N´-bis(hydroxymethyl) 78491-02-8	30	No TLV/TWA Established	No TLV/TWA Established

Statement of Hazardous Nature: Causes mild eye irritation. (Propylene Glycol & Diazolidinyl urea) Causes mild skin irritation. (Propylene Glycol)

3. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! CAUSES MILD EYE IRRITATION. CAUSES MILD SKIN IRRITATION.

Hazard Overview

Target Organs: Skin / Eyes

Primary Entry Routes: Dermal - skin. Eyes.

Acute Health Hazards: Causes mild eye irritation. Causes mild skin irritation.

Chronic Health Hazards: None known

Signs and Symptoms of Overexposure

Eye Contact:	Causes mild eye irritation .
Skin Contact:	Causes mild skin irritation.
Ingestion:	Not a hazard under normal use conditions.
Inhalation:	Not a hazard under normal use conditions.

4. FIRST AID MEASURES

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:	Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if symptoms occur.
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.
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.

5. FIRE FIGHTING MEASURES

NFPA Rating:	Health: 1 Flammability: 1 Reactivity: 0
Flash Point (°F):	199.4
Extinguishing Media:	All standard firefighting media
Unusual Fire/Explosion Hazards:	Unknown
Special Protective Equipment:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

HMIS RATING:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and 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:	Storage at temperatures below 10°C requires thawing and mixing prior to use, with no detrimental effect to product quality or efficacy. Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use in a well ventilated area.
Respiratory Protection:	Use in a well ventilated area.
Hand Protection:	All cleanable impervious glove types are acceptable.

Eye Protection: Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear to pale yellow

Odor: CHARACTERISTIC, MILD

Odor Threshold: Not available

pH: Not determined

Specific Gravity: 1.18

Boiling Point (°F): 369

Melting Point (°F): Not determined

Vapor Pressure: 0.22 mm Hg @ 20°C

Solubility: 1.5g/100g @25°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur

Conditions to Avoid: None anticipated

11. TOXICOLOGICAL INFORMATION

Toxicity Test:

Acute Oral LD50 (mg/kg):
20,000 (Propylene Glycol)
2,570 (Diazolidinyl Urea)
>5,600 (Methylparaben)
6,332 (Propylparaben)

Acute Dermal LD50 (mg/kg):
>2,000 (Diazolidinyl urea) (rabbit)
31,000 (Propylene Glycol (rabbit)

Acute Inhalation LC50 (mg/l): 1.3 mg/kg (rat) (Diazolidinyl urea, 50% Aqueous solution)

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)

Mutagenicity:
Non-mutagenic (Propylene Glycol)
Non-mutagenic (Ames assay). (Diazolidinyl urea)
Non-mutagenic (Ames assay & Dominant lethal assay) (Methylparaben).
Nonmutagenic Ames assay with and without metabolic activation. (Propylparaben)

Teratogenicity:
Non-teratogenic (Propylene Glycol)
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 in rabbits dosed orally with 3-300 mg/kg. Non-teratogenic in rats and mice receiving 5-500 mg/kg gestation days 6-18. (Methylparaben)

Skin Irritation:

Mildly irritating to rabbit skin at 100%. (Methylparaben)
Minimally irritating to rabbit skin (0.3% in product formulation). (Propylparaben)
Mildly irritating to human skin (Propylene glycol).
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)

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)
Practically non-irritating to rabbit eye (100% Methylparaben)
Minimally irritating to rabbit eye. (up to 8% in formulations) (Propylparaben)

Other Information:

Phototoxicity: Non-phototoxic (0.5% Diazolidinyl urea)
Phototoxicity: Non-phototoxic (Propylparaben)
Phototoxicity: Non-phototoxic. (Methylparaben)
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.
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)
Photosensitization: Non-sensitizing to guinea pig skin. (0.5% Diazolidinyl urea)

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)

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

Land Transportation:

DOT (Non-Bulk):

DOT Shipping Name: NOT REGULATED

UN/NA Number: NONE

Hazard Class: NONE

DOT (Bulk):

DOT Shipping Name: NOT REGULATED

UN/NA Number: NONE

Hazard Class: NONE

Air Transportation (IATA):

Proper Shipping Name:	NOT REGULATED
UN Number:	NONE
Hazard Classification:	NONE

Sea Transportation (IMO):

Proper Shipping Name:	NOT REGULATED
UN/ID Number:	NONE
Hazard Classification:	NONE

TDG (Canada):

Proper Shipping Name:	NOT REGULATED
Hazard Class:	NONE

15. REGULATORY INFORMATION

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.
WHMIS Ingredient Disclosure List -	None of the components of this product is listed on WHMIS Ingredient Disclosure list
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.
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.
EU EINECS List -	This product and/or its components is listed on EINECS.
EU ELINCS List -	This product and/or its components is not listed on ELINCS.

16. OTHER INFORMATION

Prepared By:	Product Stewardship
Legend:	N.Av.= Not Available; N.Ap.= Not Applicable
Important Note:	ISP TECHNOLOGIES INC. (ISP) manufacturers industrial products for use as materials in the production of products by industrial customers. The information herein is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed. ISP usually has only limited information about the products of its customers and their composition, methods of manufacture and use. Accordingly, ISP MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS OR RELIABILITY OF INFORMATION HEREIN EXCEPT THAT SUCH INFORMATION IS, THE BEST OF ISP'S KNOWLEDGE AND BELIEF, ACCURATE AS OF THE DATE INDICATED. ISP recommends that customers independently test and evaluate its products and their products and processes in which ISP products are used in order to decide their safety and effectiveness.

*****END OF MSDS*****