



Safety Data Sheet

Section 1: Identification

Trade Name: Germaben II E

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

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Section 2: Hazard(s) Identification

Emergency Overview

CAUTION!

CAUSES MILD EYE IRRITATION.

CAUSES MILD SKIN IRRITATION

Hazard Overview

Target Organs: • Eyes
 • Skin

Primary Route(s) of Exposure: Eyes. Skin.

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.

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No	% Content	
1,2-Propanediol	57-55-6	60	
Urea, N-(1,3-bis(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl)-N,N'-bis(hydroxymethyl)	78491-02-8	20	

Section 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 plenty of 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.

Section 5: Fire-Fighting Measures

NFPA Rating: Health: 1 Flammability: 1 Reactivity: 0.

Flash Point (°F): 220

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 BATING:

HEALTH 1

FLAMMABILITY 1

PHYSICAL HAZARD 0

Section 6: Accidental Release Measures

Personal Precautionary: Use appropriate protective equipment.

Measures:

Procedure for

Cleaning/Absorption: Contain spill with sand or other inert materials.

Section 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

Section 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.

Exposure Limits

Components:	ACGIH Threshold Limit Values Time Weighted Averages (TLV-TWA)	U.S. OSHA Final PELs Time Weighted Averages (TWAs)
1,2-Propanediol 57-55-6 (60)	No TLV/TWA Established	No TLV/TWA Established
Urea, N-(1,3-bis(hydroxymethyl)-5-dioxo-4-imidazolidinyl)-N,N-bis(hydroxymethyl) 178491-02-8 (20)	No TLV/TWA Established	No TLV/TWA Established

Section 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/Freezing Point(°F):	Not determined
Vapor Pressure:	0.22 mm Hg @ 20°C
Solubility:	1.5g/100g @25°C

Section 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

Section 11: Toxicological Information

Toxicity Test:

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

Acute Dermal LOSO (mg/kg):

31,000 (Propylene Glycol (rabbit))

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

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)

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)

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-teratogen

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.Sg/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)

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. LCSO:>100 mg/L; NOEL 60mg/L

Rainbow trout, 96 hr. LCSO:>100 mg/L; NOEL 100 mg/L

Acute Oral LOSO:>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 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.

Section 14: Transport Information

Land Transportation:

DOT (Non-Sulk):

UN/NA Number: NONE

DOT Shipping Name: NOT REGULATED

Hazard Class: NONE

DOT (Bulk): NONE

UN/NA Number:
DOT Shipping Name: NOT REGULATED

Air Transportation (IATAI):
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

TOG (Canada) :
Proper Shipping Name: NOT REGULATED
Hazard Class: NONE

Section 15: Regulatory Information

TSCA Inventory List: This product and/or its components are listed or exempt from the TSCA Inventory

California Proposition 65 This product and/or its components is not listed on California Proposition 65
Carcinogens & Reproductive
Toxicity (CRT) List:

WHMIS Ingredient Disclosure One or more components of this product is listed on the WHMIS Ingredient
List: Disclosure list.

Canada DSL Inventory List: This product and/or its components are listed or exempt from the DSL
Inventory

Canada NDSL Inventory List: This product and/or its components does not comply with NDSL

Japan Inventory of Existing & This product and/or its components does not comply with ENCS
New Chemical Substances
(ENCS):

Australia Inventory of Chemical This product and/or its components are listed or exempt from the AICS

Inventory

Substances (AICS) List:

European Inventory of Existing This product and/or its components are listed or exempt from the EINECS

Inventory

Commercial Chemical

Substances (EINECS):

EU List of Notified Chemical This product and/or its components does not comply with ELINCS

Substances (ELINCS)

Section 16: Other Information

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