TheSage.com
Majestic Mountain Sage Inc ®

# Preservative, Germaben II
Safety Data Sheet

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Name:** Preservative, Germaben II
**Product Code:** 508-239X

**1.2 Intended Use:** Compound used in customer substance/mixture/product.

**1.3 Supplier:**
Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, Utah 84321 - United States of America
T 435.755.0863 - F 435.755.2108
www.TheSage.com

**1.4 Emergency Telephone Number**
No additional information available.

## SECTION 2: Hazards Identification

**2.1 Classification**

| | |
|---|---|
| Eye Damage/Irritation, Category 2A | H319: Causes serious eye irritation. |

**2.2 Label Elements**

**Hazard Pictograms**

**Signal Word:** Warning.

**Hazard Statements**

| | |
|---|---|
| H319 | Causes serious eye irritation. |

**Precautionary Statements**

**Prevention:**

| | |
|---|---|
| P264 | Wash skin thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

**Response:**

| | |
|---|---|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |

### 2.3 Hazards Not Otherwise Classified (HNOC)

Not applicable.

### 2.4 Other Information

Not applicable.

## SECTION 3: Composition/Information on Ingredients

### 3.1 Hazardous Components

**Substance/Mixture:** Mixture

| Chemical Name | CAS No. | Classification | Concentration |
|---|---|---|---|
| Diazolidinyl urea | 78491-02-8 | Eye Irrit, 2A; H319 | 30.10 |

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

**General Advice:** Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

**Eye Contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.

**Skin Contact:** First aid is not normally required. However, it is recommended that exposed areas be cleaning by washing with soap and water.

**Inhalation:** If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

**Ingestion:** Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways). Causes serious eye irritation.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

**Note to physicians:** No hazards which require special first aid measures.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media

**Suitable:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, foam, carbon dioxide ($CO^2$), or dry chemical.

**Unsuitable:** High volume water jet.

### 5.2 Specific Hazards Arising From the Chemical

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off from fire fighting to enter drains or water courses.

**Hazardous Combustion Products:** Carbon dioxide and carbon monoxide. Organic compounds. Phenols. Toxic fumes.

### 5.3 Protective Equipment and Precautions for Firefighters

In the event of a fire, wear self-contained breathing apparatus and protective equipment.

### 5.4 Additional Information

Fire residues and contaminated fire extinguish water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

### 6.2 Environmental Precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and Material for Containment and Cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 6.4 Other Information

Comply with all applicable federal, state, and local regulations.

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling

Do not breathe vapors/dust. Do not smoke. Container hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see Section 8. Dispose of rinse water in accordance with local and national regulations.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / work materials must comply with the technological safety standards.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Exposure Guidelines:**
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 8.2 Appropriate Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines ( if applicable) or below levels that cause known, suspected or apparent adverse effects.

### 8.3 Individual Protection Measures, Such as Personal Protective Equipment

| | |
|---|---|
| **Eye/Face Protection:** | Wear chemical splash goggles when there is a potential for exposure of the eyes to liquid, vapor or mist. |
| **Skin/Body Protection:** | Wear as appropriate: impervious clothing, safety shoes. Choose body protection according to the amount and concentration of the dangerous substances at the work place. Wear resistant gloves (consult your safety equipment supplier). |
| **Respiratory Protection:** | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| **General Hygiene Considerations:** | Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke. |

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

| | |
|---|---|
| **Physical State:** | Liquid |
| **Color:** | Clear |
| **Odor:** | Characteristic, mild |
| **Odor Threshold:** | No data available |

| **Property** | **Values** |
|---|---|
| **pH:** | No data available |
| **Melting/Freezing Point:** | No data available |
| **Boiling Point/Range:** | 369.0 °F / 187.2 °C |
| **Flash Point:** | 219.9 °F / 104.4 °C |
| **Evaporation Rate:** | No data available |
| **Flammability (solid, gas):** | No data available |
| **Flammability Limit in Air** | |
| **Upper Flammability Limit:** | No data available |
| **Lower Flammability Limit:** | No data available |
| **Vapor Pressure:** | 0.2926 hPa (20°C) |
| **Vapor Density:** | No data available |
| **Relative Density:** | No data available |
| **Density:** | 1.18 g/cm3 |
| **Water Solubility:** | 15 g/l (25°C) |
| **Solubility in Other Solvents:** | No data available |
| **Partition Coefficient:** | No data available |
| **Auto-ignition Temperature:** | No data available |
| **Decomposition Temperature:** | No data available |
| **Kinematic Viscosity:** | No data available |
| **Dynamic Viscosity:** | No data available |
| **Explosive Properties:** | No data available |
| **Oxidizing Properties:** | No data available |

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

Product will not undergo hazardous polymerization.

### 10.4 Conditions to Avoid

Excessive heat. Exposure to sunlight. Exposure to moisture.

### 10.5 Incompatible Materials

Isocyanates. Strong acids. Strong bases. Strong oxidizing agents. UV light.

### 10.6 Hazardous Decomposition Products

Carbon dioxide and carbon monoxide. Phenol. Toxic fumes.

## SECTION 11: Toxicological Information

### 11.1 Information on Likely Routes of Exposure

| | |
|---|---|
| **Product Information:** | No data available. |
| **Inhalation:** | No data available. |
| **Eye Contact:** | No data available. |
| **Skin Contact:** | No data available. |
| **Ingestion:** | No data available. |
| **Acute Toxicity:** | Not classified based on available information. |

### 11.2 Information on Toxicological Effects

**Components:**
Diazolidinyl urea:
Acute Oral Toxicity: LD50 (Rat): > 2,000 mg/kg
Acute Dermal Toxicity: LD50 (Rabbit): > 2,000 mg/kg

**Skin Corrosion/Irritation:**
Not classified based on available information.

**Product:**
Remarks: May cause skin irritation in susceptible persons.
**Components:**
Diazolidinyl urea:
Result: Not irritating to skin.

**Serious Eye Damage/Irritation:**
Causes serious eye irritation.

**Product:**
Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin. Causes serious eye irritation.
**Components:**
Diazolidinyl urea:
Result: Irritating to eyes.

**Respiratory or Skin Sensitization:**

Skin Sensitization: Not classified based on available information.
Respiratory Sensitization: Not classified based on available information.

**Components:**
Diazolidinyl urea:
Test Type: Maximization Test (GPMT)
Species: Guinea pig.
Assessment: Did not cause sensitization on laboratory animals.

**Germ Cell Mutagenicity:**

Not classified based on available information.

**Components:**
Diazolidinyl Urea:

| | |
|---|---|
| Genotoxicity in vitro: | Test Type: Ames test<br>Metabolic activation: with and without metabolic activation<br>Result: negative |
| | Test Type: Chromosome aberration test in vitro<br>Metabolic activation: with and without metabolic activation<br>Result: negative |
| Genotoxicity in vivo: | Test Type: In vivo micronucleus test<br>Test species: Mouse (male and female)<br>Application route: oral<br>Method: Mutagenicity (micronucleus test)<br>Result: negative |
| | Application route: oral<br>Method: OECD Test Guideline 486<br>Result: negative |

**Carcinogenicity:** Not classified based on available information.

**Reproductive Toxicity:**

Not classified based on available information.

**Components:**
Diazolidinyl urea:

| | |
|---|---|
| Effects on foetal: | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: Oral<br>Dose: 500 milligram per kilogram |

**STOT - Single Exposure:** Not classified based on available information.

**STOT - Repeated Exposure:** Not classified based on available information.

**Repeated Dose Toxicity**

**Components:**

Diazolidinyl urea:
Species: Rat, male and female
NOEL: 200 mg/kg
Application route: Oral
Exposure time: 90-day

**Aspiration Toxicity:** Not classified based on available information.

**Product:**

No aspiration toxicity classification.

**Further Information:**

**Product:**

Remarks: No data available.

**Carcinogenicity:**

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

**OSHA:** 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.

**NTP:** 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.

## SECTION 12: Ecological Information

### 12.1 Ecotoxicity

**Components:**

Diazolidinyl urea:

| | |
|---|---|
| Toxicity to fish: | EC50 (Fish): > 100 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates: | EC50 (Daphnia magna (Water flea)): 58 mg/l<br>Exposure time: 48 h<br>Test type: flow-through test |
| Toxicity to algae: | ErC50 (Green algae (Selenastrum capricornutum)): 5.78 mg/l<br>End point: EC50<br>Exposure time: 72 h |

| | |
|---|---|
| | Test type: Growth inhibition<br>Analytical monitoring: yes |

## 12.2 Persistence and Degradability

**Components:**

| | |
|---|---|
| Diazolidinyl urea: | |
| Biodegradability: | Biodegradation: 24%<br>Exposure time: 28 d<br>Remarks: Not readily biodegradable. |
| Stability in water: | Degradation half life (DT50): 12 h (20.4 °C)<br>pH:7 |

## 12.3 Bioaccumulation

**Components:**

| | |
|---|---|
| Diazolidinyl urea: | |
| Bioaccumulation: | Remarks: The substances has low potential for bioaccumulation. |
| Partition coefficient: | |
| n-octanol/water | log Pow: 0.9 (20 °C) |

## 12.4 Mobility in Soil

**Components:**

| | |
|---|---|
| Diazolidinyl urea: | |
| Distribution among: | Adsorption/Soil |
| Environmental compartments: | Medium: Soil<br>Koc: <2 |

## 12.5 Other Adverse Effects

**Product:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

**Components:**

Diazolidinyl urea:

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

**General Advice:** The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

**Disposal of Wastes**: Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.

**Contaminated Packaging**: Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14: Transport Information

### 14.1 International Transport Regulations

**MX_DG:** Not dangerous goods.
**International Air Transport Association - Passenger:** Not dangerous goods.
**International Air Transport Association - Cargo:** Not dangerous goods.
**International Maritime Dangerous Goods:** Not dangerous goods.
**TDG_INWT_C:** Not dangerous goods.
**TDG_Rail_C:** Not dangerous goods.
**TDG_Road_C:** Not dangerous goods.
**U.S. DOT - Inland Waterways:** Not dangerous goods.
**CFR_Rail_C:** Not dangerous goods.
**U.S. Dot - Road:** Not dangerous goods.

**Marine Pollutant:** No.

## SECTION 15: Regulatory Information

### 15.1 US Federal Regulations

**SARA 311/312 Hazard Categories**
Acute Health Hazard.

## 15.2 US State Regulations

**Pennsylvania Right to Know**

| | | |
|---|---|---|
| Propylene glycol | 57-55-6 | 50.00 - 70.00% |
| Diazolidinyl urea | 78491-02-8 | 30.00 - 50.00% |
| Methyl paraben | 94-13-3 | 1.00 - 5.00% |
| Propyl paraben | 94-13-3 | 1.00 - 5.00% |

**New Jersey Right to Know**

| | | |
|---|---|---|
| Propylene glycol | 57-55-6 | 50.00 - 70.00% |
| Diazolidinyl urea | 78491-02-8 | 30.00 - 50.00% |
| Methyl paraben | 94-13-3 | 1.00 - 5.00% |
| Propyl paraben | 94-13-3 | 1.00 - 5.00% |

**California Prop 65**

This product does not container any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## 15.3 International Inventories

The components of this product are reported in the following inventories:

| | |
|---|---|
| TSCA | On TSCA Inventory |
| DSL | All components of this product are on the Canadian DSL |
| AICS | On the inventory, or in compliance with the inventory |
| ENCS | No information available |
| KECL | On the inventory, or in compliance with the inventory |
| PICCS | On the inventory, or in compliance with the inventory |
| IECSC | On the inventory, or in compliance with the inventory |

**Inventories:** AICS (Australia), DSL (Canada), IECSC (Chine), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Phillippines), TSCA (USA).

## SECTION 16: Other Information

### 16.1 NFPA Rating

| | |
|---|---|
| **Health Hazards:** | 2 |
| **Flammability:** | 1 |
| **Instability:** | 0 |
| **Physical and Chemical Properties:** | **-** |

### 16.2 HMIS Rating

| | |
|---|---|
| **Health Hazards:** | 2 |
| **Flammability:** | 1 |
| **Physical Hazards:** | 0 |
| **Personal Protection:** | **-** |

Notes:
This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.