SAFETY DATA SHEET
Germaben II

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Germaben II

Company: Chemistry Connection
253 Sturgis Road
Conway, AR 72034
Phone: 501-470-9689

Emergency Contact: 888-583-7738

2. HAZARD IDENTIFICATION

GHS Classification

Eye Irritation Category 2A

GHS Label Element

Hazard Pictograms

Signal word Warning

Hazard Statements Causes serious irritation

Precautionary Statements

Prevention:
Wash skin thoroughly after handling.
Wear eye protection/ face protection.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Other Hazards None Known

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. 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.
In case of 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.
In case of skin contact	First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
In case of ingestion	Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
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.
Notes to physician	No hazards which require special first aid measures.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable Extinguishing Media	High volume water jet
Special hazards during fire-fighting	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 firefighting to enter drains or water courses.

Hazardous combustion products	carbon dioxide and carbon monoxide organic compounds Carbon dioxide (CO2) phenols toxic fumes
Specific extinguishing methods	Product is compatible with standard fire-fighting agents.
Further information	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment/ firefighters	In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment	Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for clean-up & containment	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Other information	Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Safe Handling	Do not breathe vapours/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.
Safe Storage	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 / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures 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.

Personal protective equipment

Hand Protection The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye Protection Wear chemical splash goggles when there is the 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 substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	No data available	Vapour pressure	No data available
Colour	No data available	Relative vapour density	No data available
Odour	No data available	Relative density	No data available
Odour Threshold	No data available	Density	No data available
pH	No data available	Water solubility	No data available
Melting point/freezing point	No data available	Solubility in other solvents	No data available
Boiling point/boiling range	No data available	Partition coefficient: n-octanol/water	No data available
Flash point	No data available	Thermal decomposition	No data available
Evaporation rate	No data available	Viscosity, dynamic	No data available
Flammability (solid, gas)	No data available	Viscosity, kinematic	No data available
Upper explosion limit	No data available	Oxidizing properties	No data available
Lower explosion limit	No data available		

10. STABILITY AND REACTIVITY

Reactivity No decomposition if stored and applied as directed.

Chemical Stability Stable under recommended storage conditions.

Possibility of hazardous reactions Product will not undergo hazardous polymerization.

Conditions to avoid Excessive heat
Exposure to sunlight.
Exposure to moisture

Incompatible materials Isocyanates
Strong acids
strong bases
Strong oxidizing agents
UV light.

Hazardous decomposition product carbon dioxide and carbon monoxide
phenols
toxic fumes

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity Not classified based on available information

Components: Diazolidinyl Urea	
Acute oral toxicity	LD 50 (Rat): > 2,000 mg/kg
Acute dermal toxicity	LD 50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation Not classified based on available information

Remarks: May cause skin irritation in susceptible persons

Components: Diazolidinyl Urea	
Result:	Not irritating to skin

Serious eye damage / eye irritation Causes serious eye irritation

Remarks: Vapours 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 sensitisation Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components: Diazolidinyl Urea	
Result:	Test Type: Maximisation Test (GPMT) Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity Not classified based on available information.

Components: Diazolidinyl Urea	
Genotoxicity in vitro	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Result: negative
Genotoxicity in vivo	Test Type: In vivo micronucleus test Test species: Mouse (male and female) Application Route: Oral Method: Mutagenicity (micronucleus test) Result: negative Application Route: Oral Method: OECD Test Guideline 486 Result: negative

Carcinogenicity Not classified based on available information.

Reproductive toxicity Not classified based on available information.

Components: Diazolidinyl Urea	
Effects on fetal development	Test Type: Embryo-fetal development Species: Rat Application Route: Oral 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	
Result:	Species: Rat, male and female NOEL: 200 mg/kg

	Application Route: Oral Exposure time: 90-day

Aspiration toxicity Not classified based on available information

Components: Diazolidinyl Urea	
Result:	No aspiration toxicity classification

Carcinogenicity

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

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components: Diazolidinyl Urea	
Toxicity to fish	LC 50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 58 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae	ErC50 (Green algae (Selenastrum capricornutum)): 5.78 mg/l End point: EC 50 Exposure time: 72 h Test Type: Growth inhibition Analytical monitoring: yes

Persistence & Degradability

Components: Diazolidinyl Urea	
Biodegradability	Biodegradation: 24 % Exposure time: 28 d Remarks: Not readily biodegradable.

Stability in water	Degradation half-life (DT50): 12 h (20.4 °C) pH: 7

Bioaccumulative potential

Components: Diazolidinyl Urea

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

Mobility in Soil

Components: Diazolidinyl Urea	
Distribution among environmental compartments	Adsorption/Soil Medium: Soil Koc: < 2

Other adverse effects

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).

13. DISPOSAL CONSIDERATIONS

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.
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.

14. TRANSPORT INFORMATION

Mexican Regulation For The Land Transport Of Hazardous Materials And Wastes
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

Transport Canada - Inland Waterways
Not dangerous goods

Transport Canada - Rail
Not dangerous goods

Transport Canada - Road
Not dangerous goods

U.S. Dot - Inland Waterways
Not dangerous goods

U.S. Dot - Rail
Not dangerous goods

U.S. Dot - Road
Not dangerous goods

Marine Pollutant NO

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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.
AUSTR	On the inventory, or in compliance with the inventory
ENCS	see user defined free text
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 (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

16. OTHER INFORMATION

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