



# MATERIAL SAFETY DATA SHEET

**B-NINE®**

**Version:** 1.0  
**Date of Issue:** 03/06/2006  
**Date printed:** 03/25/2006

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** B-NINE®

**Chemical name:** Daminozide

**Use of substance/preparation:** Plant Growth Regulator

**Supplier:** Chemtura USA Corporation  
Chemtura Corporation (Worldwide HQ)  
199 Benson Road  
Middlebury, CT 06749 USA

**Emergency telephone number:** CHEMTREC (24 hours) 800-424-9300  
Chemtura Corporation Emergency Response (24 hours) 800-292-5898  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

**Environmental, Health and Safety Department:** 866-430-2775

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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<u>INGREDIENT</u>	<u>% BY WEIGHT</u>
Daminozide CAS# 1596-84-5	85
Alkoxylated alcohol CAS# 66455-15-0	< 10

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## 3. HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

**WARNING!**

**RISK OF SERIOUS DAMAGE TO EYES.  
MAY BE IRRITATING TO SKIN.**

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## 4. FIRST AID MEASURES

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### Swallowing

Do not induce vomiting. Rinse mouth with water. Obtain medical attention.

### Inhalation

Remove to fresh air. Obtain medical attention.

### Skin contact

Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists.

### Eye contact

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists.



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## 5. FIRE-FIGHTING MEASURES

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**Autoignition temperature:** Not available

**Hazardous combustion products**

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Special fire fighting procedures**

Do not discharge extinguishing waters into streams, rivers and lakes.

**Special protective equipment for firefighters**

Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus.

**Extinguishing media**

**Suitable:**

- CO2
- dry powder
- foam
- water fog

**Unsuitable:** - water spray

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions**

Wear suitable protective equipment., Avoid contact with eyes and skin.

**Environmental precautions**

Prevent from entering sewer system, surface water or soil.

**Methods for cleaning up**

Sweep up and collect in a suitable container for disposal.  
Avoid dust formation.

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## 7. HANDLING AND STORAGE

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**HANDLING**

**Handling precautions**

Do not get in eyes, on skin, on clothing.

**STORAGE**

**Storage requirements**

Store in a cool, dry place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE LIMIT VALUES**

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Alkoxylated alcohol				No other exposure limits have been established

No other exposure limits have been established



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### PERSONAL PROTECTION

#### Respiratory protection

A respirator approved for dust/fume or mist protection is recommended for mists, sprays or aerosols.

#### Hand protection / protective gloves

Chemical resistant protective gloves

#### Eye protection

Safety glasses with side shields.

#### Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

### ENGINEERING CONTROLS

#### Ventilation

Local ventilation is needed in the presence of airborne mists, sprays or aerosols and/or high vapor concentrations.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE

Physical state	Powder
Color	White
Odor	NONE

### OTHER PROPERTIES

Boiling point	Not available
Melting point	> 120 °C
pH	3.9 Concentration: 10 g/l
Bulk density	740 kg/m <sup>3</sup>
Solubility in water	Complete
Flash point	Not available
Thermal decomposition	NONE
Autoignition temperature	Not available
Percent volatiles	0 %(m)
Oxidizing properties	Not applicable

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## 10. STABILITY AND REACTIVITY

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Stability: This product is stable under normal storage and handling conditions.



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**Incompatible materials**

Oxidizing agents.  
Strong acids.  
Strong bases.

**Hazardous combustion products**

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Hazardous polymerization:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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**SWALLOWING**

Test results

Acute toxicity: LD50 Rat  
Result: > 5,000 mg/kg

<u>Component data</u> Daminozide Acute toxicity - Swallowing:	LD50 - Rat Result: > 5,000 mg/kg
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**SKIN ABSORPTION**

Test results

Acute toxicity: LD50 - Rat  
Result: > 5,000 mg/kg

<u>Component data</u> Daminozide Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 5,000 mg/kg
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**INHALATION**

Test results

Acute toxicity: LC50 - Rat  
Result: > 4 mg/l  
Exposure time: 4 h

<u>Component data</u> Daminozide Acute toxicity - Inhalation:	LC50 - Rat Result: > 4 mg/l Exposure time: 4 h
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**SKIN CONTACT**

Test results

Skin irritation: Species: Rabbit  
Result: Not irritating

<u>Component data</u> Daminozide Skin irritation - Skin contact:	Species: Rabbit Classification: Not irritant
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**EYE CONTACT**

Test results

Eye irritation: Species: Rabbit  
Classification: Risk of severe damage to eyes

<u>Component data</u> Daminozide Eye irritation - Eye contact:	Species: Rabbit Classification: Not irritant
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**SENSITIZATION**



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Test results: Species: - Guinea pigs  
 Result: Non sensitizing.

<u>Component data</u> Daminozide Sensitization:	Species: Guinea pigs Result: Negative
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### 12. ECOLOGICAL INFORMATION

<u>Component ecotoxicology</u> Daminozide <u>Acute toxicity fish:</u>	Acute toxicity fish LC50 - Rainbow trout (Oncorhynchus mykiss) Result: > 149 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Daminozide <u>Aquatic toxicity to plants:</u>	IC50 - Algae Result: 160 mg/l Exposure time: 72 h
<u>Component ecotoxicology</u> Daminozide <u>Acute toxicity to aquatic invertebrates:</u>	Acute daphnia toxicity LC50 - Water flea (Daphnia magna) Result: > 99 mg/l Exposure time: 48 h

### 13. DISPOSAL CONSIDERATIONS

**General:** Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

#### **Non-cleaned packages**

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed., Containers that cannot be cleaned must be treated as waste.

### 14. TRANSPORT INFORMATION

#### DOT Classification

This product is not regulated by DOT.

#### IMDG Classification

This product is not regulated by IMDG.

#### ICAO Classification

This product is not regulated by ICAO.

### 15. REGULATORY INFORMATION

#### CHEMICAL INVENTORY



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**Europe:** The ingredients of this mixture are on the EINECS inventory.

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### 16. OTHER INFORMATION

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FURTHER INFORMATION  
MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

#### Emergency Telephone Numbers

<b>Latin America:</b>	All	+44 (0)208 762 8322
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STP	Standard temperature and pressure
W/W	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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