

MATERIAL SAFETY DATA SHEET



B-NINE®

Version:

1.0

Date of Issue:

03/06/2006

Date printed:

03/25/2006

1. PRODUCT AND COMPANY IDENTIFICATION

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW WARNING!

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

4. FIRST AID MEASURES

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

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

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

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

STORAGE

Storage requirements

Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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/m³

Solubility in water Complete

Flash point Not available

Thermal decomposition NONE

Autoignition temperature Not available

Percent volatiles 0 %(m)

Oxidizing properties Not applicable

10. STABILITY AND REACTIVITY

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.

11. TOXICOLOGICAL INFORMATION

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 (<i>Oncorhynchus mykiss</i>) 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 (<i>Daphnia magna</i>) 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 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.

16. OTHER INFORMATION

FURTHER INFORMATION

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

Emergency Telephone Numbers

Latin America:	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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