



Partners with solutions

MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY
CHEMTREC:(800)-424-9300

EMERGENCY AND PRODUCT INFORMATION
OHP, Inc.:(800)-356-4647

B-Nine® WSG

EPA Registration Number: 400-478-59807

I. PRODUCT IDENTIFICATION

Product name: B-NINE® WSG
Chemical name: Daminozide
Use of substance/preparation ..: Plant Growth Regulator

II. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT | CAS# | % BY WEIGHT |
|---------------------------------|-----------|-------------|
| Daminozide | 1596-84-5 | 85 |
| Non-Hazardous Inert Ingredients | | 15 |

Ingredients not precisely identified are non-hazardous and/or proprietary

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!
RISK OF SERIOUS DAMAGE TO EYES

IV. FIRST AID MEASURES

Swallowing: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Eye contact: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

V. FIRE-FIGHTING MEASURES

Autoignition temperature ...: Not available

NFPA CLASSIFICATION

Health:3 | Flammability:1 | Reactivity:0 | Special provisions:

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

VI. 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.

VII. HANDLING AND STORAGE

HANDLING

Handling precautions: Do not get in eyes, on skin, on clothing.

Other precautions: NOTE TO END-USERS:
The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

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STORAGE

Storage requirements: Store in a cool, dry place.

Incompatible materials: Oxidizing agents.
Strong acids.
Strong bases.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

No other exposure limits have been established

Hazardous

combustion products: Irritating fumes.
Oxides of carbon.
Oxides of nitrogen.

PERSONAL PROTECTION

Respiratory protection: A respirator approved for dust/fume or mist protection is recommended for mists, sprays or aerosols. The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation.

Hazardous polymerization: Will not occur.

Hand protection /

protective gloves: Chemical resistant protective gloves

XI. TOXICOLOGICAL INFORMATION

SWALLOWING

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

Eye protection: Safety glasses with side shields.

SKIN ABSORPTION

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

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

INHALATION

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

ENGINEERING CONTROLS

Ventilation: If personnel exposure exceeds exposure limits, apply local exhaust ventilation at points of dust generation.

SKIN CONTACT

Test results
Skin irritation: Species: Rabbit
Result: Non irritating.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state: Granular solid

Color: White

Odor: NONE

Odor threshold: Not available

EYE CONTACT

Test results
Eye irritation: Species: Rabbit
Classification: Severe eye irritant

SENSITIZATION

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

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 applicable

Thermal decomposition: NONE

Autoignition temperature: Not available

Percent volatiles: 0 %(m)

Oxidizing properties: Not applicable

XII. ECOLOGICAL INFORMATION

Component ecotoxicology

Daminozide
Acute toxicity fish: Acute toxicity fish LC50 - Rainbow trout (*Oncorhynchus mykiss*)
Result: > 149 mg/l
Exposure time: 96 h

Component ecotoxicology

Daminozide
Acute toxicity fish: LC50 - Bluegill (*Lepomis macrochirus*)
Result: 423 mg/l
Exposure time: 96 h

Component ecotoxicology

Daminozide
Aquatic toxicity to plants: IC50 - Algae
Result: 160 mg/l
Exposure time: 72 h

X. STABILITY AND REACTIVITY

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

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Component ecotoxicology

Daminozide

Acute toxicity to aquatic invertebrates: Acute daphnia toxicity LC50 - Water flea (Daphnia magna)

Result: > 99 mg/l

Exposure time: 48 h

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

| Chemical name | CAS# | New Jersey TS Number |
|---------------------|-----------|----------------------|
| Alkoxylated alcohol | — | |
| Magnesium sulfate | 7487-88-9 | |
| Daminozide | 1596-84-5 | |

EPA Hazard Categories (SARA 311, 312)

Immediate Health Hazard

California Proposition 65

This product contains daminozide.

CHEMICAL INVENTORY

United States: This product contains a component not listed in the US TSCA inventory.

XIII. DISPOSAL CONSIDERATIONS

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

XIV. 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.

XV. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are: NONE

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are: NONE

XVI. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

HMIS RATING

Health: 3 Flammability: 1 Reactivity: 0 PPI: X

STP Standard temperature and pressure

W/W Weight/Weight
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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