

B-NINE WSG

EPA Registration Number: 70506-532-59807
**1. IDENTIFICATION OF THE SUBSTANCE/
PREPARATION AND OF THE COMPANY/
UNDERTAKING**
Identification of the product
Product Description: B-NINE WSG

Other means of identification
Internal SDS code: 12A-0014

Registration number(s): 70506-532

**Recommended use of the chemical
and restrictions on use**
Recommended use: Plant Growth Regulator.

Uses advised against: Non labeled activities

Details of the Supplier of the Safety Data Sheet
Supplier Address

 UPL NA Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

Emergency Telephone Number
Company Telephone Number:... 1-800-438-6071

Emergency Telephone Number:

 Chemtrec:..... (800) 424-9300 (24hrs)
or (703) 527-3887

Medical:

 Rocky Mountain Poison
and Drug Safety: (866) 673-6671 (24hrs)

2. HAZARDS IDENTIFICATION
Classification
OSHA Regulatory Status

 This chemical is considered hazardous by the 2012 OSHA
Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2B |
| Combustible Dust | |

Label Elements

EMERGENCY OVERVIEW
WARNING
Hazard Statements CAUSES
EYE IRRITATION

 May form combustible
dust concentrations
in air

Appearance: Granule
Physical State: Solid
Odor: odorless

Precautionary Statements - Prevention

Wash thoroughly after handling.

Precautionary Statements - Disposal

 Dispose of contents/container to an approved waste
disposal plant

Hazards Not Otherwise Classified (HNOC)

None identified

Precautionary Statements - 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 INFORMATION

- not available

**3. COMPOSITION/INFORMATION ON
INGREDIENTS**

| Chemical name | CAS No | Weight-% |
|------------------------------------|-----------|----------|
| Daminozide | 1596-84-5 | 85 |
| Magnesium sulfate, anhydrous | 7487-88-9 | 5-10 |

 If CAS number is "proprietary", the specific chemical
identity and percentage of composition has been withheld
as a trade secret.

4. FIRST AID MEASURES
Eye contact Hold eye open and rinse slowly and gently
with water for 15 - 20 minutes. Remove contact lenses, if
present, after 5 minutes, then continue rinsing eye. Call a
poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin
immediately with plenty of water for 15-20 minutes. Call a
poison control center or doctor for treatment advice.

Inhalation Move person to fresh air. If person is not
breathing, call 911 or an ambulance, then give artificial
respiration, preferably mouth-to-mouth if possible. Call a
physician or poison control center immediately.

Ingestion Call a physician or poison control center
immediately. Clean mouth with water. Never give anything
by mouth to an unconscious person.

**Most Important Symptoms and Effects, Both Acute
and Delayed**
Most Important Symptoms and Effects
None known.

**Indication of Any Immediate Medical Attention and
Special Treatment Needed**
Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES
Suitable extinguishing media

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Carbon dioxide (CO2). Foam. Dry chemical. Water spray.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Combustible material. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables. Dust clouds generated during handling and/or storage can form explosive mixtures with air. Avoid creating dust.

Hazardous combustion products Thermal decomposition can lead to release of irritating gases and vapors.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions

Environmental precautions. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep out of reach of children. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Wash thoroughly after handling. Avoid dust formation. Avoid breathing dust. In case of inadequate ventilation wear respiratory protection. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place. Keep away from contact with oxidizing materials. Do not store near strong acids.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines The Occupational Safety and Health Administration (OSHA), has established for inert or nuisance dusts, a permissible Exposure Limit (PEL) of 15 mg/m3, total dust or 5 mg/m3, respirable fraction for an 8 hour Time Weighted Average (TWA) as Particles Not Otherwise Regulated (PNOR). The American Conference of Governmental Industrial Hygienists (ACGIH) have established, for inert or nuisance dusts, Threshold Limit Values (TLV) of 10 mg/m3 for inhalable (total) particulates and 3 mg/m3 for respirable particulates based on Particulates Not Otherwise Specified (PNOS).

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Personal protective equipment

Eye/Face Protection Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin protection Long sleeved clothing. Long pants. waterproof gloves. Socks and footwear.

Respiratory protection Avoid breathing dust. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Granule
Physical State Solid
Odor Oderless
Color White

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| Property | VALUES | Remarks/ Method |
|--|---|--|
| pH | | None known |
| Melting point/ freezing point | | None known |
| Boiling Point/ Range | | None known |
| Flash Point | No information available | None known |
| Evaporation Rate | | None known |
| Flammability (solid, gas) | | None known |
| Minimum Ignition Energy | Pmax 8.0 +/- 10% bar @ 75 micron | None known |
| Relative density | 0.4 - 0.5 | None known |
| Bulk density | | None known |
| Water solubility | | None known |
| Solubility in Other Solvents | Soluble | None known |
| Partition coefficient: n-octanol/water None known | | None known |
| Autoignition temperature | | None known |
| Decomposition temperature | | None known |
| Viscosity | | None known |
| Explosive properties | Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard | Maximum explosion pressure (Pmax) 8 +/- 10% bar @ 75 micron Dust Explosion Constant Kst 170 +/- 12% bar-m/s @ <75 micron |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | no data available. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | Avoid dust formation. |

Incompatible materials Strong oxidizing agents.
..... Strong acids.
..... Strong bases.

**Hazardous decomposition
products** Carbon oxides.

11. TOXICOLOGICAL INFORMATION
Information on Likely Routes of Exposure

Product information B-Nine WSG
Acute oral LD50
(rat) = >5000 mg/kg
Acute dermal LD50
(rat) = >5000 mg/kg
Acute inhalation LC50
(rat) - 4 hr = >4 mg/l

Inhalation not classified

Eye contact CAUSES EYE
IRRITATION.

Skin contact May cause irritation.

Ingestion not classified

Information on Toxicological Effects

Symptoms No information available.

**Delayed and immediate effects as well as chronic
effects from short and long-term exposure**

Sensitization No information available.

Mutagenic effects no data available.

Carcinogenicity There are no known
carcinogenic chemicals
in this product.

Reproductive effects Not Available.

STOT - Single Exposure no data available.

STOT - Repeated Exposure no data available.

Aspiration hazard No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral > 5000 mg/kg (rat)

LD50 Dermal > 5000 mg/kg

**12. ECOLOGICAL INFORMATION
ecotoxicity**

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas.

Persistence/Degradability
no data available.

Bioaccumulation/ Accumulation
No information available.

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Other Adverse Effects

no data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging . . . Refer to product label.

14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word CAUTION

Causes moderate eye irritation. Keep out of Reach of Children. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark.

International Inventories

USINV Not present

DSL/NDSL Not present

EINECS/

ELINCS

Not Present

ENCS Not Present

China Not Present

KECL Not Present

PICCS Not Present

AICS Not Present

TSCA Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

CERCLA

Not applicable

CERCLA

RCRA

Pesticide Information

State Regulations

| Component | California Prop. 65 |
|--------------------------------|---------------------|
| Daminozide 1596-84-5 (85) | Carcinogen |

| Chemical Name | CAS No | CATEGORY |
|---------------|-----------|------------|
| Daminozide | 1596-84-5 | Carcinogen |

Prop 65 Pictogram



Prop 65 Warning Statement WARNING

California Proposition 65 This product can expose you to chemicals which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

State Right-to-Know

| Chemical Name | Massachusetts | New Jersey |
|---------------------------|---------------|------------|
| Daminozide - 1596-84-5 | X | X |

| Pennsylvania | Illinois | Rhode Island |
|--------------|----------|--------------|
| | | |

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FIFRA Hazard Information : This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

International regulations
U.S. EPA Label information
EPA Pesticide registration number 70506-532

16. OTHER INFORMATION

NFPA Health1 Flammability1 Instability Physical Hazard

Preparation Date 14-Feb-2020

Revision Date 19-Nov-2021

Revision Summary

Update registration number

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