



# Safety Data Sheet

Preparation Date 30-Sept-2024

Revision date 30-Sept-2024

Revision Number: 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Identification of the product

Product Description B-Nine

### Other means of identification

Internal SKU DU00001274  
UVP DU00000068  
Specification 102D00000341  
Registration number(s) 70506-532-101563

### 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

Environmental Science U.S. LLC.  
5000 CentreGreen Way, Suite 400  
Cary, NC 27513  
1-800-331-2867  
uscontact@envu.com

### Emergency telephone number

Company Phone Number 800-424-9300  
Emergency telephone number

## 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**

Do not get in eyes, on skin, or on clothing  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)**

**OTHER INFORMATION**

- MAY BE HARMFUL IF SWALLOWED

**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**

**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**

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**

<b>Exposure guidelines</b>	The Occupational Safety and Health Administration (OSHA), has established for inert or nuisance dusts, a permissible Exposure Limit (PEL) of 15 mg/m <sup>3</sup> , total dust or 5 mg/m <sup>3</sup> , 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/m <sup>3</sup> for inhalable (total) particulates and 3 mg/m <sup>3</sup> for respirable particulates based on Particulates Not Otherwise Specified (PNOS).
<b>Engineering controls</b>	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.
<b><u>Personal protective equipment</u></b>	
<b>Eye/Face Protection</b>	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.
<b>Skin protection</b>	Long sleeved clothing. Long pants. waterproof gloves. Socks and footwear.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	
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

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Granule	
<b>Physical state</b>	solid	
<b>Odor</b>	odorless	
<b>color</b>	white	
<b>Property</b>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>		None known
<b>Melting point/freezing point</b>		None known
<b>Boiling Point/Range</b>		None known
<b>Flash Point</b>	No information available	None known
<b>Evaporation Rate</b>		None known
<b>Flammability (solid, gas)</b>		None known
<b>Minimum Ignition Energy</b>	Pmax 8.0 +/- 10% bar @ 75 micron	<b>Specific gravity</b> 0.4 - 0.5 g/cm <sup>3</sup>
None known		<b>Bulk density</b>
None known		<b>Water solubility</b>
Soluble in water		None known
<b>Solubility in Other Solvents</b>	Soluble	None known
<b>Partition coefficient: n-octanol/water</b>		None known
<b>Autoignition temperature</b>		None known
<b>Decomposition temperature</b>		None known
<b>Viscosity</b>		None known
<b>Explosive properties</b>	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 @ &lt;75 micron

**9.2 OTHER INFORMATION****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

<b>Inhalation</b>	May be harmful if inhaled.
<b>Eye contact</b>	Causes eye irritation.
<b>Skin contact</b>	May cause irritation.
<b>Ingestion</b>	MAY BE HARMFUL IF SWALLOWED.

**Information on Toxicological Effects**

**Symptoms** No information available.

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

<b>Sensitization</b>	No information available.
<b>Mutagenic effects</b>	no data available.
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
<b>Reproductive effects</b>	Not Available.
<b>STOT - Single Exposure</b>	no data available.
<b>STOT - Repeated Exposure</b>	no data available.
<b>Aspiration hazard</b>	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.

### Other Adverse Effects

no data available

## 13. Disposal Considerations

### Waste Treatment Methods

#### **Waste Disposal Method**

Pesticide wastes can be 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

<b>USINV</b>	Not present
<b>DSL/NDSL</b>	Not present
<b>EINECS/ ELINCS</b>	Not Present
<b>ENCS</b>	Not Present
<b>China</b>	Not Present
<b>KECL</b>	Not Present
<b>PICCS</b>	Not Present
<b>AICS</b>	Not Present
<b>TSCA</b>	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 does not contain any 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 California Proposition 65**

**WARNING**  
This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Daminozide - 1596-84-5	X	X			

International regulationsU.S. EPA Label information

EPA Pesticide registration number 70506-532-101563

## 16. Other Information

NFPA HEALTH 1 flammability 1 Instability 0 Physical hazard -

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## Revision Summary

Update registration number

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