



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 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**

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

Exposure guidelines	The Occupational Safety and Health Administration (OSHA), has established for inert or nuisance dusts, a permissible Exposure Limit (PEL) of 15 mg/m ³ , total dust or 5 mg/m ³ , 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 ³ for inhalable (total) particulates and 3 mg/m ³ 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.
<u>Personal protective equipment</u>	
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

9.1 Information on basic physical and chemical properties

Appearance	Granule		
Physical state	solid		
Odor	odorless		
color	white		
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>	
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	Specific gravity	0.4 - 0.5 g/cm ³
None known		Bulk density	
None known		Water solubility	
Soluble in water		None known	
Solubility in Other Solvents	Soluble	None known	
Partition coefficient: n-octanol/water		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

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

Inhalation	May be harmful if inhaled.
Eye contact	Causes eye irritation.
Skin contact	May cause irritation.
Ingestion	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

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.

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

USINV	Not present
DSL/NDSL	Not present
EINECS/	Not Present
ELINCS	
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 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

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** -**Preparation Date** 30-Sept-2024**Revision date** 30-Sept-2024**Revision Summary**

Update registration number

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