

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC 1-800-424-9300
OR NATIONAL PESTICIDE INFORMATION CENTER (NPIC) 1-800-858-7378

1. Identification of the substance/preparation and company/undertaking:

Product name: Dazide[®] 85 WSG
Use of product: Horticultural plant growth regulator for professional use
Distributed by: Fine Americas, Inc.
1850 Mt. Diablo Blvd., Suite 405
Walnut Creek, CA 94596, USA
Tel: 925-932-8800

2. Composition/information on ingredients:

Product: A soluble granule formulation containing 85% Daminozide (N-dimethylaminosuccinic acid)
CAS No: 1596-84-5
EPA Reg. No: 62097-17-82917

3. Hazards identification:

KEEP OUT OF REACH OF CHILDREN

Toxicity Category: III (EPA)
EPA Signal Word: Caution.

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

4. First aid measures:

After inhalation: Remove the person to a well ventilated area. Ensure the person is warm and comfortable. Call a poison control centre or doctor for treatment advice.

After skin contact: Remove contaminated clothing. Wash the affected area thoroughly with soap and water. Call a poison control centre or doctor for treatment advice.

After eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control centre or doctor for treatment advice.

After swallowing: Do not induce vomiting or give liquids. Call a poison control centre or doctor for treatment advice.

5. Fire fighting measures:

Flammability: Non-flammable
Extinguishing media: Use water mist, CO₂, foam or dry powder

Special exposure hazards:	Avoid inhalation of combustion products
Products of combustion and decomposition:	At very high temperatures daminozide will decompose to form carbon and nitrogen compounds.

6. Accidental release measures:

Personal precautions:	Wear protective clothing, see Section 8 “Exposure control/personal protection“
Environmental precautions: waters or rinsate.	Do not contaminate water when disposing of equipment wash
Methods for cleaning up:	Isolate spilled material for safe disposal and collect in sealable poly-lined containers, clean contaminated area with water.

7. Handling and storage:

Handling:	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Storage:	Do not contaminate water, food or feed by storage or disposal. Store in original container only. After partial use, close the container tightly. Store in a secure place that is temperate and dry. High humidity and moisture will cause product to harden. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

8. Exposure controls/personal protection:

- Applicators and other handlers must wear;
- Long-sleeved shirt and long pants
 - Chemical resistant gloves made of any waterproof material
 - Shoes plus socks

For washables, use detergent and hot water. Keep and was PPE separately from other laundry.

9. Physical and chemical properties:

General information:

- Appearance: A white free flowing granule
- Odor: Slight (musty)

Important health, safety and environmental information:

- pH (1% solution): 4.0
- Melting Point: 160°C
- Flash point: N/A
- Flammability: Non-flammable
- Explosive properties: Non-explosive
- Oxidizing properties: Non-oxidizing
- Vapor pressure: $<1.27 \times 10^{-5}$ Pa (22°C)
- Relative density: Not applicable

- Solubility:
 - water solubility @ 20°C: Soluble
 - fat solubility: No data
- Partition coefficient: -1.50 log P_{OW} (active ingredient pH 7)
- Viscosity: N/A
- Vapor density: N/A
- Evaporation rate: N/A
- Other information: Product can be classified as nearly dust free.

10. Stability and reactivity:

Stable in original containers for at least 2 years at ambient temperatures.

Conditions to avoid: Excessive heat.

Materials to avoid: Incompatible with strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of storage and use.

11. Toxicological information:

Acute toxicity:

- Oral: LD₅₀ rat: Category 4 - >5,000 mg/kg
- Inhalation: LC₅₀ rat: Category 4 - >2.1 mg/kg
- Dermal: LD₅₀ rat: Category 4 - >5,000 mg/kg

Irritation:

- Eye: Non-irritant
- Skin: Non-irritant

Sensitization:

- Skin: Non-sensitizing.

Carcinogenicity:

Not carcinogenic (active ingredient)

12. Ecological information:

Ecotoxicity (daminozide):

- Fish: Rainbow Trout LC₅₀ 96h. 149 mg/l
- Daphnia: EC₅₀(48h) >100 mg/l
- Algae: LOEC(72h) > 100 mg/l
- Bird: Bobwhite quail 8 day dietary LC₅₀ >10,000 mg/kg diet (active ingredient)
- Bee: Not toxic to bees. LD₅₀ >100µg/bee (active ingredient)
- Beneficial spp: No or mild effects on insect predators, parasitoids and predatory mites

Persistence and degradability:

Dissipates quickly in soil with most residues becoming bound and degrades rapidly under normal conditions in contact with soil (90% in 7 days). Neither hydrolysis nor photolysis are significant pathways for the degradation of daminozide. No evidence of accumulation.

13. Disposal considerations:

Product disposal:	Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Packaging disposal:	Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. Transport information:

UN number:	Not applicable
NMFC number:	101685
Class:	065
Proper shipping name:	Plant growth inhibitor, modifier or regulator
Packaging group:	Not applicable
Marine pollutant:	Not applicable
Other applicable information:	None

15. Regulatory information:

Chemical Name	SARA 313	SARA 302	CERCLA Reportable Quantity (RQ)	California Proposition 65
Daminozide	Not Listed	Not Listed	None	Listed

16. Other information:

For further information on the product and product use refer to the product label.

This version supersedes previous version (102709). Prepared by Fine Americas, Inc on the basis of the best available data. No representation is given that the information provided is complete in all respects.