

## SAFETY DATA SHEET

**24 HOUR EMERGENCY TELEPHONE CANUTEC 613-996-6666**

### **1. Identification:**

Product identifier:	Dazide® 85 WSG
Recommended use:	Plant growth regulator
PCPA Reg. No.:	28168
Manufactured by:	Fine Americas, Inc. 1850 Mt. Diablo Blvd., Ste. 405, Walnut Creek, CA 94596, USA Tel: 925-932-8800 For Fine Agrochemicals, Ltd. Hill End House, Whittington, Worcester, WR5 2RQ, UK Tel: + 44-1905-361800
Distributed by:	N.M. Bartlett Inc. 4509 Bartlett Rd, Beamsville, Ontario, L0R 1B1, Canada Tel: 905-563-8261

### **2. Hazard(s) identification:**

Keep out of the reach of children. Caution – eye irritant

### **3. Composition:**

Chemical name and concentration:	Soluble granule formulation containing 85% Daminozide (N-dimethylaminosuccinamic acid)
CAS No.:	1596-84-5 (active ingredient)

### **4. First aid measures:**

If swallowed:	Call a physician or contact a poison control centre.
If inhaled:	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.
If on skin:	Wash contaminated skin with soap and water. Remove contaminated clothing and dress in clean clothing. Launder contaminated clothing separately.
If in eyes:	Flush eyes with running water for 15-20 minutes. Contact a physician or poison control centre IMMEDIATELY.

### **5. Fire fighting measures:**

Extinguishing media:	Use water mist, CO <sub>2</sub> , foam or dry powder
Specific hazards:	Avoid inhalation of combustion products. At very high temperatures daminozide will decompose to form carbon and nitrogen compounds.
Protective equipment:	No applicable information available.

### **6. Accidental release measures:**

Personal precautions:	See Section 8 "Exposure controls/personal protection"
Methods for cleaning up:	<p>Do not contaminate feed or food.</p> <p>For information on the disposal of unused, unwanted product, contact the manufacturer and the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.</p> <p>Do not contaminate water when disposing of equipment washwater or rinsate. Do not allow discharge from the greenhouse to contaminate aquatic systems.</p> <p>Do not enter or allow worker entry into treated areas within 24 hours of application.</p>

### **7. Handling and storage:**

Precautions for safe handling:	<p>Avoid contact with skin, eyes and clothing.</p> <p>Avoid inhaling/breathing sprays. May irritate eyes. Avoid contact with eyes.</p>
Storage:	Avoid contamination of seed, feed and foodstuffs.

**8. Exposure controls/personal protection:**

Exposure limit:	No applicable information available.
Engineering controls:	No applicable information available.
Individual protection measures:	<p>Wear chemical resistant coveralls over a long-sleeved shirt and long pants, chemical resistant gloves, socks and chemical resistant footwear during mixing, loading, application, clean up or repair activities. In addition, wear a chemical resistant apron for mixing, loading and cleaning equipment. Wear chemical resistant headgear, a face shield and a dust/mist-filtering respirator (MSHA/NIOSH approved number prefix TC-21C) in addition to the personal protective equipment indicated above for overhead application.</p> <p>Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash thoroughly and put on clean clothing.</p> <p>Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</p>

**9. Physical and chemical properties:**

Appearance:	A white free flowing granule
Odor:	Slight musty
Odor threshold:	No applicable information available
pH (1% solution):	4.0
Melting point/freezing point:	No applicable information available
Boiling point:	No applicable information available
Flash point:	Does not flash
Evaporation rate:	No applicable information available
Flammability:	Not flammable
Explosive properties:	Not explosive
Vapor pressure:	<1.27 x 10 <sup>-5</sup> Pa (22°C)
Vapor density:	No applicable information available
Relative density (@20°C):	Not applicable
Solubilities:	
Water solubility @20°C:	Soluble
Fat solubility:	No applicable information available
Partition coefficient:	-1.50 log Pow (active ingredient pH 7)
Auto-ignition temperature:	No applicable information available
Decomposition temperature:	No applicable information available
Viscosity:	Not applicable

**10. Stability and reactivity:**

Reactivity:	No applicable information available
Chemical stability:	Stable in original containers for at least 2 years at ambient temperatures
Possibility of hazardous reactions:	No applicable information available
Conditions to avoid:	Excessive heat
Incompatible materials:	Incompatible with strong oxidizing agents
Hazardous decomposition products:	None under normal conditions of storage and use

**11. Toxicological information:**

Routes of exposure/acute toxicity	
Oral:	LD <sub>50</sub> rat: Category 4 - >5,000 mg/kg
Inhalation:	LC <sub>50</sub> rat: Category 4 - >2.1 mg/kg
Dermal:	LD <sub>50</sub> rat: Category 4 - >5,000 mg/kg
Irritation	
Eye:	Non irritant
Skin:	Non irritant
Sensitization	
Skin:	Non-sensitizing
Carcinogenicity:	Not carcinogenic (active ingredient)
Mutagenicity:	No applicable information available

Reproductive toxicity:	No applicable information available
Chronic toxicity:	No applicable information available
NTP/IARC/OSHA listing(s):	No applicable information available

**12. Ecological information:**

Ecotoxicity (daminozide):	<ul style="list-style-type: none"> <li>• Fish: Rainbow Trout LC<sub>50</sub> 96h. 149 mg/l</li> <li>• Daphnia: EC<sub>50</sub>(48h) &gt;100 mg/l</li> <li>• Algae: LOEC(72h) &gt; 100 mg/l</li> <li>• Bird: Bobwhite quail 8 day dietary LC<sub>50</sub> &gt;10,000 mg/kg diet (active ingredient)</li> <li>• Bee: Not toxic to bees. LD<sub>50</sub> &gt;100µg/bee (active ingredient)</li> <li>• Beneficial spp: No or mild effects on insect predators, parasitoids and predatory mites</li> </ul>
Mobility:	No applicable information available.
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.
Bioaccumulation potential:	No applicable information available.

**13. Disposal considerations:**

Pesticide disposal:  
 Avoid contamination of seed, feed and foodstuffs. For information on the disposal of unused, unwanted product, contact the manufacturer and the provincial regulatory agency. Do not contaminate water when disposing of equipment washwater or rinsate. Do not allow discharge from the greenhouse to contaminate aquatic systems.

Container disposal:  
 Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

**14. Transport information:**

TDG (Canada) Status:	Not applicable
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

**15. Regulatory information:**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Chemical name:	daminozide
Signal words:	Caution – eye irritant
Symbol:	None

**16. Other information:**

For further information on the product and product use, refer to the product label. This version supersedes all previous versions. 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.

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