

**MATERIAL SAFETY DATA SHEET**

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

**Preparation name:** DAZIDE ENHANCE  
**Use of preparation:** Horticultural plant growth regulator for professional use  
**Supplier:** Fine Agrochemicals Ltd, Hill End House, Whittington  
 Worcester, WR5 2RQ, Tel: +44 (0) 1905 361800

**2. Composition/Information On Ingredients:**

**Substance:** Daminozide (N-dimethylaminosuccinamic acid) 85% soluble granule formulation.

Cas No: 1596-84-5 (Active Ingredient)  
 Einecs No: 216-485-9 (Active Ingredient)

**Hazardous Ingredients:**      **Classification:**      **Concentration:**  
 None

**3. Hazards identification**

None

**4. First aid measures**

**After inhalation:** Remove the person to a well ventilated area. Ensure the person is warm and comfortable. Obtain immediate medical attention.

**After skin contact:** Remove contaminated clothing. Wash the affected area thoroughly with soap and water. Obtain medical attention if irritation occurs.



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**4. First aid measures (cont'd.)**

After eye contact: Irrigate eyes with running water for at least 15 minutes. Obtain medical attention.

After swallowing: Do not induce vomiting or give liquids. Seek medical advice.

**5. Fire fighting measures**

Flammability: Non-flammable

Extinguishing Media: Use water mist, CO<sub>2</sub>, 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

Prevent contaminated water entering drains.

Methods for cleaning up

Isolate spilled material for safe disposal and collect in sealable polylined containers, clean contaminated area with water.

**7. Handling and storage**

Handling

Keep away from drink and foodstuffs. Do not smoke in the workplace. Avoid contact with spray. Wash thoroughly after handling.

Storage

Store in cool dry conditions in original well marked containers.



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**8. Exposure controls/personal protection**

Exposure controls

To avoid risks to man and the environment comply with instructions for use. Also see Section 15. Regulatory Information.

Occupational exposure controls

- Respiratory protection

No respiratory protection should be needed.

- Hand protection

Acid resistant gloves with a minimum 0.5mm thickness should be worn with sleeves worn over the top of the gloves.

- Eye protection

No eye protection should be needed.

- Skin protection

Wear sensible regularly laundered overalls.

**9. Physical and chemical properties:**

General information

Appearance: A white free flowing granule

Odour: 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

Oxidising properties: Non-oxidising

Vapour pressure: <math> < 1.27 \times 10^{-5} \text{ Pa} </math> (22°C)

Relative density: N/A

Solubility

- water solubility @ 20°C: Soluble

- fat solubility: No data

Partition coefficient: -1.50 log P<sub>OW</sub> (active ingredient pH 7)

Viscosity: N/A

Vapour density: N/A



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**9. Physical and chemical properties (cont'd.)**

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 oxidising agents.

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

**11. Toxicological information**

Acute toxicity

Oral:	LD <sub>50</sub> Rat: > 5,000 mg/kg
Inhalation	LC <sub>50</sub> Rat: >2.1 mg/kg
Dermal	LD <sub>50</sub> Rat: >5,000 mg/kg

Irritation

Eye	Non-irritant
Skin	Non-irritant
Respiratory tract	Non-irritant

Sensitisation

Skin:	Non-sensitising.
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Carcinogenicity: Not carcinogenic (Active Ingredient)

Mutagenicity: Not mutagenic (Active Ingredient)



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**11. Toxicological information (cont'd.)**

Reproductive tox: No data  
Chronic tox: No data  
Toxicity Class: WHO (a.i.) U; EPA (formulation) IV.

**12. Ecological information**

Ecotoxicity

Fish: Rainbow Trout LC<sub>50</sub> 96h. 149 mg/l (Active Ingredient)  
Daphnia: EC<sub>50</sub>(48h) >100 mg/litre  
Algae: LOEC (72 h) >100 mg/l  
Bird: Bobwhite quail 8 day dietary LC<sub>50</sub> >10,000 mg/kg diet (Active Ingredient)  
Bee: Not toxic to bees. LD<sub>50</sub> >100µg/bee (Active Ingredient)  
Beneficial sps: 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

May be taken to waste disposal site or incineration plant when in compliance with local regulations refer to the local waste regulation authority (Environment Agency).

Packaging

Empty containers can be landfilled when in accordance with local regulation.

**14. Transport information**

UN number: Not classified  
Class: Not classified



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**14. Transport information (cont'd.)**

Proper shipping name: Not classified  
Packaging group: Not classified  
Marine Pollutant: Not classified  
Other applicable information: None

**15. Regulatory Information**

Health, Safety and Environmental Information shown on the Product Label as required by regulation 9 of CHIP3:

**Symbol(s):** None

**Risk Phrases:** None

**Safety Phrases:**

S2	Keep out of reach of children
S13	Keep away from food, drink & animal feed stuffs
S20/21	When using do not eat, drink or smoke
S36/37	Wear suitable protective clothing and gloves
S46	If swallowed, seek medical advice immediately and show this container or label.
S49	Keep in original container

Specific provisions Restricted to professional users  
To avoid risks to man and the environment, comply with the directions for use.

Refer to HSE publication "COSHH essentials" for further guidance on MSDS use and complying with the legal requirements of COSHH.

**16. Other information:**

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

This version replaces all previous versions.



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