

## MATERIAL SAFETY DATA SHEET

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

**Substance name:** DAZIDE ENHANCE

**Use of substance:** Horticultural plant growth regulator for professional use

**Supplier:** Fine Agrochemicals Ltd, Hill End House, Whittington ,  
Worcester, WR5 2RQ, Tel: +44 01905 361800, Fax: +44 (0)  
1905 361810

**Email of competent person preparing MSDS:** [mariam@fine.eu](mailto:mariam@fine.eu)

**Emergency telephone number:** Fine Agrochemicals Ltd, Tel: +44 01905 361800  
(Office hours 9 am – 5 pm GMT)

### 2. Hazards identification

None

### 3. 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)

<b>Hazardous Ingredients:</b>	<b>Classification under 67/548/EEC:</b>	<b>Classification under EC 1272/2008:</b>	<b>Concentration:</b>
Dispersant	None	Eye Irrit. 2 - H319 Skin Irrit. 2 - H315	< 4 %



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## 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. |
| 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.



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## 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.

## 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. Showering and changing into street clothes after work is recommended.



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## 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:  $<1.27 \times 10^{-5}$  Pa (22°C)

Relative density: N/A

### Solubility

- water solubility @ 25°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

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.



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## 11. Toxicological information

### Acute toxicity

Oral:	LD <sub>50</sub> rat: > 5,000 mg/kg
Inhalation:	LC <sub>50</sub> rat > 2.1 mg/l
Skin and eye:	LD <sub>50</sub> rabbit > 5,000 mg/kg

### Irritation

Eye:	Non-irritant
Skin:	Non-irritant
Respiratory tract:	Non-irritant
Corrosivity:	Not corrosive
Sensitisation Skin:	Non-sensitising
Carcinogenicity:	Non-carcinogenic (Active ingredient)
Mutagenicity:	Non-mutagenic (Active ingredient)
Reproductive tox:	None (Active ingredient)
Chronic tox:	No known long term effects (Active ingredient)
Toxicity Class:	WHO (a.i.) U; EPA (formulation) IV.

## 12. Ecological information

### Ecotoxicity

Fish:	Common Carp LC <sub>50</sub> (96h) 420 mg/l
Daphnia:	EC <sub>50</sub> (48h) >100 mg/litre
Algae:	EC <sub>50</sub> (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.
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### 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
Proper shipping name:	Not classified
Packaging group:	Not classified
Marine Pollutant:	Not classified

### 15. Regulatory Information

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

<b>Symbol(s):</b>	None	
<b>Risk Phrases:</b>	None	
<b>Safety Phrases:</b>	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
<b>Specific provisions:</b>	Restricted to professional users	



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## 15. Regulatory Information (cont'd.)

To avoid risks to man and the environment, comply with the directions for use.

A chemical safety report is not required since the product is already registered under the crop protection regulation 91/414/EC.

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.

Safety phrases as quoted in Section 3:

H319: Causes serious eye irritation

H315: Causes skin irritation

This version replaces version 3.4 dated April 2011.

**Reason for revision:** This safety data sheet has been re-formatted and expanded to meet the revised requirements of the REACH directive and EC 453/2010.



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