

# DAZIDE ENHANCE®

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** DAZIDE ENHANCE®  
**Recommended use:** Plant Growth Regulator  
**Other identifier:** Daminozide  
**Restrictions on use:** Greenhouse pot plants

**Supplier:** Universal Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1983/008184/07  
 PO Box 801,  
 Kempton Park, 1620, South Africa  
**Telephone:** (011) 396 2233  
**Fax:** (011) 396 4666  
**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

**Emergency telephone numbers:**  
**24 Hr Transport / Spill emergency no:**  
 (Hazcall24) +27 86 044 4411  
 (Client: Villa Crop Protection)  
 Griffon Poison Information Centre +27 82 446 8946  
 (Client: Villa Crop Protection)  
**Poisoning Emergency telephone numbers:**  
 Griffon Poison Information Centre +27 82 446 8946  
 Poisons Information Centre +27 861 555 777

## 2. HAZARDS IDENTIFICATION

**The most important adverse effects:** None known.  
**Physicochemical effects:** None known.  
**Human health effects:** May cause mild but reversible eye irritation.  
**Label elements:** Not required.  
**Signal word:** None.  
**Hazard statements:** Not required.  
**Precautionary statements:** Not required.  
**Special labelling of certain mixtures:** None known.  
**Other hazards:** None known.  
**Toxicity:** Classification according to GHS: Unclassified.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture  
**Composition:**

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Daminozide	1596-84-5	85 %	-
Dispersant	37199-81-8	0.01%	Skin Sens 1 (H317)

## 4. FIRST AID MEASURES

**Inhalation:** Avoid inhalation of spray mist. If vapours or mists have been inhaled, remove the source of contamination or move victim to fresh air. Ensure that the victim is warm and comfortable. Obtain medical attention if necessary.  
**Skin:** Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. Obtain medical attention if irritation persists.  
**Eye:** Remove contaminated clothing. Wash the eyes with clean, gently flowing water for at least 15 - 20 minutes, holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eye(s). Obtain medical attention if irritation persists.  
**Ingestion:** Rinse mouth. Do not induce vomiting or give liquids. Seek medical attention if you feel unwell.  
**Anticipated acute effects:** None known.  
**Anticipated delayed effects:** None known.  
**Most important symptoms/effects:** None known.  
**Advice to physician:** No specific antidote known. Have the product container or label with you when calling a poison control centre or doctor. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide, dry powder or alcohol-resistant foam. Water spray as a fog can be used for cooling of unaffected stock. Contain water used for firefighting for later disposal.  
**Unsuitable Extinguishing Media:** Water jet.  
**Specific hazards:** None known.  
**Special Fire Fighting Procedures:** No risk of an explosion from this product under normal circumstances when involved in a fire. Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a water spray, CO<sub>2</sub>, dry chemical and foam-extinguishing agent for the type of surrounding fire. If area is exposed to fire and conditions permit, let fire burn itself out.  
 Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind.  
 Burning chemicals may produce by-products more toxic than the original material. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid pollution of waterways.  
 Avoid the accumulation of polluted run-off from the site.  
**Hazardous products of combustion:** At very high temperatures **Daminozide** will decompose to form carbon and nitrogen compounds.  
**Personal protective equipment:** If product is on fire, wear self-contained breathing apparatus and full protective

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equipment. Do not breathe fumes from burning material. Keep upwind.

## 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**Personal precautions:** Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Environmental precautions:** Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

**Methods and Materials for Containment:** Contain spilled product by diking area with sand or earth and collect in sealable poly-lined containers.

**Methods and Materials for Clean-up:** Clean contaminated area with water. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Do not contaminate water while cleaning equipment or disposing of wastes. Keep spectators away and upwind.

## 7. HANDLING AND STORAGE REQUIREMENTS

### Handling:

**Precautions for safe handling:** This is a water-dispersible product. Avoid inhalation of spray and vapour and contact with eyes and skin. Operators should change and wash clothing daily. If in contact wash skin thoroughly using a non-abrasive soap and put on clean clothing. Water used to clean equipment must be disposed of correctly to avoid contamination.

**General occupational hygiene:** Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday.

### Storage:

**Conditions for safe storage:** Store in its original container in dry, cool, well-ventilated area. Keep out of reach of unauthorised persons, children and animals. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration:**  
None known.

**Engineering Controls:** It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

### Personal protective equipment:

**Respiratory Protection:** An approved respirator suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

**Skin and Body Protection:** Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

**Hand Protection:** Employee must wear appropriate chemical resistant gloves to prevent contact with this substance

**Eye protection:** No eye protection should be needed.

**Emergency eye wash:** Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** A white free flowing granule.

**Odour:** Odourless

**pH (1% aqueous dilution):** 4.09

**Melting Point:** No information available.

**Freezing Point:** Not available.

**Boiling Point:** 160 °C.

**Flash Point:** Not flammable.

**Flammability:** Not flammable.

**Upper/lower Explosion Limits:** Not available.

**Vapour Pressure:**  $<1.27 \times 10^{-5}$  Pa @ 20 °C.

**Relative Vapour Density:** Not available.

**Density:** 0.44 g/cm<sup>3</sup> at 20 °C

**Solubility in water:** Soluble in water.

**n-octanol/water partition coefficient:** -1.5 log P<sub>ow</sub> (a.i.)

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not applicable.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal, dry storage conditions. Stable for more than 24 months when stored in original, unopened containers and kept in dry conditions at temperatures less than 32 °C.

**Reactivity:** None known.

**Possibility of Hazardous Reactions:** No hazardous reactions if used for its intended purpose.

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**Conditions to Avoid:** Avoid excessive heat and sources of ignition.

**Incompatible Materials:** Incompatible with strong oxidizing substances.

**Hazardous Decomposition Products:** Decomposition products may include toxic and irritant fumes.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral LD<sub>50</sub>:** >4377 mg/kg.

**Acute dermal LD<sub>50</sub>:** > 4081 mg/kg.

**Acute inhalation:** >4.84 mg/ℓ.

**Skin irritation/corrosion:** Not calculated.

**Eye irritation/corrosion:** Not calculated.

**Skin sensitization:** Not calculated.

**Respiratory sensitization:** Not calculated.

**Reproductive cell mutagenicity:** Not calculated.

**Carcinogenicity:** Not calculated.

**Reproductive toxicity:** Not calculated.

**Specific target organ toxicity – single exposure:** Not calculated.

**Specific target organ toxicity – repeated exposure:** Not calculated.

**Aspiration hazard:** Not calculated.

**Chronic Effects:** None known.

### POTENTIAL ADVERSE EFFECTS:

May cause mild but reversible eye irritation.

## 12. ECOLOGICAL INFORMATION

This product is not expected to be harmful to aquatic organisms.

### ECOTOXICOLOGY:

**Fish:**

LC<sub>50</sub> (96 h) 75 mg/ℓ

**Daphnia:**

EC<sub>50</sub> (48 h) 60 mg/ℓ

**Algae:**

EC<sub>50</sub> (72 h) 46 mg/ℓ

**Birds:**

Acute oral LD<sub>50</sub> >2250 mg/kg

**Bees:**

LD<sub>50</sub> contact >200 µg/bee

LD<sub>50</sub> oral >200 µg/bee

**Worms:**

LC<sub>50</sub> >1000 mg/kg

## ENVIRONMENTAL EFFECTS

**Based on information for the formulation:**

**Persistence and degradability:** Biodegradable.

Dissipates quickly in soil with most residues becoming bound and degrades rapidly under normal conditions in contact with soil (90% in 7 days).

**Bio-accumulative potential:** No evidence of accumulation.

**Mobility in soil:** Not determined.

**Other adverse effects:** Not determined.

## 13. DISPOSAL CONSIDERATION

**Waste:** Open dumping or burning of this pesticide is prohibited. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Prevent contamination of food, feedstuffs, drinking water and eating utensils.

**Container:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. Empty the container of excess product into the mixing tank or spray tank of the applicator. Destroy the emptied containers by perforation and flattening. Bury in an approved dumpsite. Do not re-use the empty container for any other purpose. Comply with any local legislation applying to disposal.

## 14. TRANSPORT INFORMATION

**UN NUMBER:** Not regulated

Not classed i.e. considered non-hazardous material according to UN Orange Book and international transport codes e.g. RID (rail), ADR (road) and IMDG (sea)

**Special/Environmental Precautions:** Wedge drums tightly to avoid movement.

**Transport in bulk** (according to MARPOL 73/78, Annex II and the IBC code): Not available.

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation for the mixture:**

OHS 1993 Regulations for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

**Other national regulations:** None.

**Chemical Safety Assessment carried out?** No

## 16. OTHER INFORMATION

**Packaging:** Packed in 1, 5, 10, 15, 20, 25 and 50 kg plastic containers and bags, labelled according to South African regulations and guidelines.

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### Other hazard statements, abbreviations and explanations:

**H317:** May cause an allergic skin reaction.

**IATA:** International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization.

**IMDG:** International Maritime Dangerous Goods

**IMO:** International Maritime Organization.

**LD<sub>50</sub> value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

**OEL/RL:** Occupational exposure limit-recommended limit.

**TWA:** Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

**ST/STEL:** Short-term exposure limits.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of neither the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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### END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.