

UNIVERSAL AMID-THIN® W

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product name: AMID-THIN® W
 Plant growth regulator

UN Number: Not regulated

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, South Africa

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Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 Envirosure. +27 31 205 4918
 (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

Villa Crop Protection Emergency number:
National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: 1-naphthaleneacetamide
Chemical Name: 1-naphthaleneacetamide (IUPAC)
CAS No.: [86-86-2]
Chemical Family: synthetic auxin
Chemical Formula: C₁₂H₁₁NO (Mol. wt: 185.2)
Use: Used as a thinning agent for apples and pears.
Formulation: 1-naphthaleneacetamide 84 g/kg
 Wettable powder

Hazardous ingredient:

<u>Inert:</u>	<u>Concern:</u>
Crystalline silica	Respiration hazard

SYMBOLS: Xn
RISK-PHRASE(S): R20/22

3. HAZARD IDENTIFICATION

Toxicity class: EPA (formulation) III.
Likely routes of exposure: Ingestion, inhalation, eye and skin contact.
Eye contact: May cause eye irritation seen as redness and tearing.

Skin contact: Skin irritation may be aggravated in persons with existing skin lesions.
Inhalation: Dusts may be irritating to the respiratory tract and cause coughing, wheezing and expectoration. Chronic inhalation exposure to crystalline silica may cause pulmonary fibrosis (silicosis).

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation: Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Contact a physician immediately.
Ingestion: Immediately dilute the swallowed product by giving large amounts of water or milk. Induce vomiting immediately by giving Syrup of Ipecac according to the directions on the bottle. Never give anything by mouth to an unconscious person. Contact a physician immediately.
Skin contact: Remove contaminated clothing. Wash thoroughly with soap and clean water. If a rash or any of the symptoms of acute exposure appear, contact a physician immediately.
Eye contact: Immediately flush the contaminated eyes with gently flowing lukewarm water for 15 to 20 minutes, occasionally lifting the upper and lower lids. Obtain medical attention if necessary.
Note to physician: No specific antidote is available. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire and explosion hazard: Flammable limits: not applicable. Not explosive, static discharge will not occur.
Extinguishing agents: Extinguish small fires with carbon dioxide, dry powder, halon or water spray. Water spray or fog can be used for larger fires or cooling of unaffected stock, but avoid coming into contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted runoff from the site.
Firefighting: Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. 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. Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways.

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Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site

Personal protective equipment: This product will emit hazardous fumes and smoke when heated excessively or burned. Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Remove all sources of flame and sparks. Avoid contact with skin and eyes. Do not inhale fumes. For personal protection see Section 8.

Environmental precautions: Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities in accordance with local regulations. Considered a marine pollutant.

Occupational spill: Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations.

Open burning or dumping of this material is prohibited. Do not get water inside containers.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Do not operate near sources of ignition. Harmful by inhalation or if swallowed. Avoid contact with eyes, prolonged contact with skin, and inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the fungicide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store in its original labelled container in shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and

water supplies. Keep out of reach of children and animals. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

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: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

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

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

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection: The use of safety goggles is recommended.

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: White to tan powder.

Odour: Musty odour.

pH: Neutral as saturated solution.

Solubility in water: Disperses

Solubility in organic solvent s: Soluble in acetone, acetonitrile and alcohols.

Partition-coefficient in n-octanol/water: Not applicable.

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and use conditions.

Storage stability: Stable for a period of 2 years under normal warehouse conditions.

Incompatibility: Avoid strong oxidizing agents.

Conditions and Materials to Avoid: Keep the product in a cool, dry place, at below 30°C. Protect from sunlight, open flame and sources of heat. **Hazardous decomposition products:** When product is heated to

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decomposition, it emits acrid smoke and fumes of unknown composition.

Polymerization: Product will not polymerize.

and flattening. Bury in an approved, designated landfill. Do not re-use the empty container for any other purpose. Comply with any local legislation applying to disposal. .

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: *Formulation:* > 10 000 mg/kg in rats

Acute dermal LD₅₀: *Formulation:* > 5000 mg/kg for rabbits

Acute inhalation LC₅₀: *Formulation:* 147 mg/l.

Acute eye irritation: Not an irritant.

Acute skin irritation: Not an irritant.

Sensitization: Not known.

Carcinogenicity: Product contains clay. A naturally occurring component of clay is crystalline silica. Inhalation of crystalline silica may cause pulmonary fibrosis. The IARC has classified crystalline silica as a probable human carcinogen (Group 2A). A hydrolysis product of 1-naphthaleneacetic acid has shown an increased incidence of uterine polyps at the highest dose tested in the female rat.

Teratogenicity: No data is available. Tests carried out on the technical material have shown no effects on developmental toxicity.

Mutagenicity: There is no evidence of genotoxic potential *in vivo*.

Reproductive toxicity: No data is available. Tests carried out on the technical material; have shown no effects on parental reproductive toxicity. At the highest dose level tested there was some evidence of parental toxicity with accompanying associated effects on offspring survival and growth.

12. ECOLOGICAL INFORMATION

Product is a plant growth regulator. Avoid contamination of water bodies.

13. DISPOSAL CONSIDERATION

Pesticide disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed. 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.

Comply with local legislation applying to waste disposal.

Package product wastes: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. Empty the container of excess product into the container of the applicator. Destroy the emptied containers by perforation

14. TRANSPORT INFORMATION

UN NUMBER: Not regulated.

Road Transport ADR/RID:

Class: Not regulated.

Packaging group: III

Shipping name: Not regulated.

Maritime Transport IMDG/IMO:

Class: Not regulated.

Packing group: III

Shipping name: Not regulated.

15. REGULATORY INFORMATION

Symbol: Xn.

Indication of danger: Harmful.

Risk phrase(s):

R 20/22 Harmful by inhalation and if swallowed.

Safety phrases:

S 2 Keep out of reach children.

S 13 Keep away from food, drink and animal feeding stuffs.

S 23 Do not breathe vapour/spray.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. PACKING AND LABELLING

Packaging: Packed in 1 kg, 2 kg & 5 kg plastic containers; in 1 kg, 2 kg & 5 kg sealed foil bags and 20 & 25 kg woven bags or 3 ply paper bags and labelled according to South African regulations and guidelines.

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 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.

END OF DOCUMENT

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For detailed information on revisions, contact the
Registration holder.