

UNIVERSAL EXILIS®

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: EXILIS®
Other identifier: 6-benzylaminopurine (cytokinin)
 21 SL
Recommended use: Plant Growth Regulator
Restrictions on use: Agriculture

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

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. HAZARD IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Environment		
Aquatic chronic	Aquatic chronic 3	H412

The most important adverse effects:
Physiochemical effects: None known
Human health effects: Reactions are not likely to occur unless the absorbed dose is extraordinary.

Label elements: No pictograms.
Signal word: No signal word.

Hazard statements:
 H412: Harmful to aquatic life with long lasting effects.
Precautionary statements:
 P273: Avoid release to the environment.
 P501: Dispose of contents/container to label specifications.

Other hazards:

To avoid risks to human health and the environment, comply with the instructions for use (EUH401).

Toxicity:
 Classification according to GHS: Unclassified
 Classification according to WHO: Group III

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
Composition:

6-benzyladenine
CAS 1214-39-7
Concentration 20 g/l
Classification EC 1272/2008 Acute Toxicity 4 (H302),
 Reproductive Toxicity 2 (H361), Aquatic Acute 1 (H400).

Citric Acid
CAS 77-92-9
Concentration <3.5 g/l
Classification EC 1272/2008 Eye Irritation 2 (H319).

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure.

Inhalation: Keep warm and at rest, in a half upright position. Loosen clothing. Promptly remove anything of a restrictive nature. Seek medical advice if necessary.

Skin: Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash the affected area thoroughly with soap and water. Obtain medical attention if irritation persists.

Eyes: Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Call a poison center or doctor/physician if you feel unwell. Rinse mouth thoroughly with water.

Anticipated acute effects: None known.

Anticipated delayed effects: None known.

Most important symptoms / effects: None known.

Advice to physician:
 Treat symptomatically and supportively. No specific antidote known.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: In case of fire use foam, carbon dioxide or dry agent.

Unsuitable Extinguishing Media: None specified.

Specific hazards: Large volumes may penetrate soil and contaminate groundwater. Seek expert advice for removal and disposal of all contaminated materials and wastes.

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Special fire-fighting procedures: Product is not flammable. Remove spectators from surrounding area. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Keep upwind.

Personal protective equipment: Fire fighters and others that may be exposed should wear chemical protective suit and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale fumes.

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

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental precautions: Do not allow to enter public sewers and watercourses. Contain spillage by any means possible. 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.

Methods and Materials for Clean-up: Absorb spillage in suitable inert material. Place in sealable container. Remove contaminated material to safe location for subsequent disposal. Do not flush spilled material into drains. Keep spectators away and upwind.

Do not touch or walk through spilled material. Stop leak if possible, without risk. Avoid runoff of product into sewers, water systems, basements or confined areas. Thoroughly wash body areas, which come into contact with the product.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with eyes, prolonged contact with skin, and inhalation of fumes. Use with adequate ventilation. Remove clothing if the product 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.

General occupational hygiene: Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep out of reach of unauthorized persons, children and animals. Store in its original labeled container in shaded, well-ventilated area, away from excess heat. Store in a dry area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Fluorinated plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: None specified.

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: No respiratory protection is needed if ventilation/extraction is adequate. If not, wear approved dust mask.

Hand Protection: Wear rubber gloves when handling the product.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact.

Skin and Body Protection: Wear suitable protective clothing, boots and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Emergency eyewash: 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. Irrigate eyes with running water for at least 15 minutes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A colourless liquid.

Odour: Sweet-smelling.

Odour threshold: Not available.

pH (1% aqueous dilution): 4 – 5.

Melting point: Not applicable.

Freezing point: Not available.

Boiling point: 180 °C (solvent).

Flash point: 105 °C.

Flammability: Non-flammable.

Upper / lower explosion limits: Not applicable.

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Vapour Pressure (mm Hg): No information available.
Relative Vapour Density: No information available.
Density / Relative density: 1.04 g/cm³.
Solubility: Miscible with water.
n-octanol / water partition coefficient: -0.92 log P_{ow} (solvent), 2.16 log P_{ow} (active ingredient).
Auto-ignition temperature: Not available.
Decomposition temperature: Will decompose only at very high temperatures to form carbon, chlorine, nitrogen and sulphur compounds.
Viscosity: 60 mPa.s @ 20 °C.

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable for two years at ambient temperature (18 – 22 °C) and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.
Reactivity: None known.
Possibility of hazardous reactions: No hazardous reactions known if used for its intended purpose.
Conditions to avoid: Keep away from 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 TOXICITY:
Oral LD₅₀ (rat): > 2020 mg/kg.
Dermal LD₅₀ (rat): > 2020 mg/kg.
Inhalation LC₅₀ (4hr) (rat): >5.02 mg/l.
Skin Irritation / Corrosion (rabbit): Animal tests showed the product to be non-irritating.
Eye Damage / Corrosion (rabbit): Animal tests showed the product to be non-irritating.
Skin Sensitization (guinea pig): Non sensitizing.
Respiratory Sensitization: Not available.
Reproductive cell mutagenicity: No evidence of mutagenic effects.
Carcinogenicity: No evidence of carcinogenic effects.
Reproductive toxicity: No evidence of reproductive effects.
Specific target organ toxicity – single exposure: Not available.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available.
Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:
 Reactions are not likely to occur unless the absorbed dose is extraordinary.

12. ECOLOGICAL INFORMATION

This product is harmful to aquatic life with long lasting effects.

ECOTOXICITY DATA:

Fish:	
LC ₅₀ (96hr)	> 100 mg/l
NOEC	100 mg/l
Daphnia:	
EC ₅₀ (48hr)	> 100 mg/l
NOEC	100 mg/l
Algae:	
EC ₅₀ (72hr)	> 100 mg/l
NOEC	100 mg/l
Birds:	
LC ₅₀	1599 mg/kg
Bees:	
LD ₅₀ contact	260 µg/bee
LD ₅₀ oral	69 µg/bee
Worms:	
LC ₅₀ (Earthworm)	> 500 mg a.s/kg dw soil (ai)

ENVIRONMENTAL EFFECTS:

Plants: No information available.
Persistence and degradability: Readily biodegradable. Half life under all conditions is 120 hours at 20 °C.
Bio-accumulative potential: No information available.
Mobility in soil: No information available.
Other adverse effects: No information available.

13. DISPOSAL CONSIDERATION

Waste: Open dumping or burning of this pesticide is prohibited. Never pour untreated waste or surplus product 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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.
Container: Do not reuse empty containers for any other purpose. **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume

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of water equal to a minimum of one third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container by perforation and flattening and bury in an approved dumpsite. Comply with local legislation applying to waste disposal.

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.

14. TRANSPORT INFORMATION

Not regulated.

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

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

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

END OF DOCUMENT

Compiled: September 2005

Reviewed: July 2019

Revision no.: (4)

Next revision date: July 2024

For detailed information on revisions, contact the Registration holder.

15. REGULATORY INFORMATION

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

OHSA 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 plastic fluorinated containers (1, 5, 10, 20 & 25 litres) and labeled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H412: Harmful to aquatic life with long lasting effects.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD₅₀ 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