

Document no: 127VK **Effective Date:** March 2020 Revision date (version): August 2022 (2) **Product Code:** HIMAZET100SL/VK

### **SAFETY DATA SHEET**

#### CHEMICAL PRODUCT AND **COMPANY**

**IDENTIFICATION** 

MALLET 100 SL **Product Name:** Other identifier: **Imazethapyr** Recommended use: Herbicide Restrictions on use: Agriculture

Villa Crop Protection (Pty) Ltd Supplier:

Co. Reg. No.: 1992/002474/07

PO Box 10413,

Aston Manor, 1630, South Africa

Telephone: (011) 396 2233 Fax: (011) 396 4666 Website: 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

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP]				
EU & SANS 10234:2008				
Hazard classes	Hazard	H-statements		
	categories	11-Statements		
Health				
Dermal	Skin Irritation 2	H315		
Environment				
Aquatic acute	Aquatic acute 1	H400		
Aquatic chronic	Aquatic chronic 1	H410		

The most important adverse effects: Physiochemical effects: None known

Human health effects: Causes skin irritation (Skin Irrit.

2).

Label elements:



Signal word: Warning Hazard statements:

H315: Causes skin irritation. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:** 

P264: Wash hands and face thoroughly after handling.

P273: Avoid release into the environment.

P280: Wear impervious rubber gloves and boots,

protective clothing, and chemical safety goggles.

P302+P352: IF ON SKIN: Wash with plenty of water and

non-abrasive soap.

P321: See label for specific treatment.

P332+P317: If skin irritation occurs get medical help.

P362+P364: Take off contaminated clothing and wash it

before reuse.

P391: Collect spillage.

P501: Dispose of contents/container to suitable landfill in

accordance with local regulations.

Other hazards:

None known.

**Toxicity:** 

Classification according to GHS: Not classified

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Imazethapyr	8133-77-5	10.5 %	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Ammonium Hydroxide	1336-21-6	< 5 %	Skin Corr. 1B (H314) Aquatic Acute 1 (H400)

### 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: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if patient feels unwell.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects: Causes skin irritation. Anticipated delayed effects: None known. Most important symptoms / effects: None known.



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

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires. Water spray can be used for cooling of unaffected stock

**Unsuitable Extinguishing Media:** Avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream (high volume water jet) may cause spreading.

Specific hazards: On heating, toxic fumes, such as sulphur dioxide and oxides of nitrogen may be produced. Special fire-fighting procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

**Personal protective equipment:** Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin.

**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:** Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms and causes long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and 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: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the

drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

### 7. HANDLING AND STORAGE

#### Handling:

**Precautions for safe handling:** Avoid contact with skin. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**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. Launder all clothing before it is re-used.

#### Storage

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed in an isolated, dry, cool and well- ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** Fluorinated plastic containers.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Permissible concentration

No occupational exposure limits have been determined for the significant ingredients in this product.

### **Engineering Controls:**

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

### **Personal Protective Equipment:**

**Respiratory Protection:** A NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours can be used.

**Hand Protection:** The use of chemically protective impervious gloves is recommended to prevent against skin contact.



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Eye Protection: Chemical safety goggles can be used to prevent against eye contact. Contact lenses are not

protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective impervious clothing, rubber boots, hat 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Light brown to brown liquid.

Odour: Not available.

Odour threshold: Not available. pH (1% aqueous dilution): 8.1 Melting point: Not available. Freezing Point: Not available. **Boiling Point:** Not available.

Flash Point: Not applicable, product is water-based.

Flammability: Not flammable or combustible. Upper / lower explosion limits: Not available. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available. Density / Relative density: 1.036 g/ml

Solubility: Not available.

n-octanol / water partition coefficient: Not available.

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

Viscosity: Not available.

### 10. STABILITY AND REACTIVITY

Chemical stability: The product is stable for two years at ambient temperature 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: Unlikely to occur. Conditions to avoid: Extreme heat or exposure to flames.

**Incompatible materials:** Strong oxidizers, strong bases,

strong reducing agents.

Hazardous decomposition products: Alcohols. Carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

### 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

Calculated according to GHS **Oral LD**<sub>50</sub> (24h) > 5000 mg/kg (rat) **Dermal LD**<sub>50</sub> > 5000 mg/kg (rabbit) Inhalation LC<sub>50</sub> (4h) > 5 mg/ $\ell$  (rat)

Skin Irritation / Corrosion: Causes skin irritation.

Eye Damage / Irritation: Not classified. Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified. Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified. Reproductive toxicity: Not classified.

Specific target organ toxicity - single exposure: Not

Specific target organ toxicity - repeated exposure:

Not classified.

Aspiration hazard: Not classified. Chronic Effects: Not classified. **POTENTIAL ADVERSE EFFECTS:** 

Inhalation: Not classified. Ingestion: Not classified.

### 12. ECOLOGICAL INFORMATION

This product is expected to be very toxic to aquatic organisms.

**ECOTOXICITY DATA:** 

Active ingredient: Imazethapyr

Fish:

LC<sub>50</sub> (96 h) Rainbow trout 340 mg/ℓ Bluegill sunfish 420 mg/ℓ

Channel catfish 240 mg/l

Daphnia:

EC<sub>50</sub> (48 h) >1000 mg/e

Algae:

EC<sub>50</sub> (72 h) Green algae 0.045 mg/ℓ

Birds:

Acute oral LD<sub>50</sub> Mallard ducks >2510 mg/kg Bobwhite quail >2510 mg/kg

Dietary LD<sub>50</sub> (8d) Mallard ducks >5000 mg/kg

diet Bobwhite quail >5000 mg/kg

Bees:

LD<sub>50</sub> contact >100 µg/bee >24.6 µg/bee LD<sub>50</sub> oral

Worms:

LC<sub>50</sub> >15.7 mg/kg

#### **ENVIRONMENTAL EFFECTS**

Based on information for the active ingredient: **Imazethapyr** 

Plants: Rapidly metabolised in non-susceptible plants, soya beans, maize, alfalfa. The primary metabolic route in all crops tested is oxidative hydroxylation at the α-carbon atom of the ethyl substituent on the pyridine ring.

Persistence and degradability: DT<sub>50</sub> lab. (Aerobic, 20 °C) 158 d. Photolytic degradation DT<sub>50</sub> (pH 7, 22-24 °C)

**Bio-accumulative potential:** Not determined.



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Mobility in soil: Not determined.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. 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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

**Container:** Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter RINSE THE EMPTY CONTAINER THREE TIMES in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank.

Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed.

### 14. TRANSPORT INFORMATION

**UN Number:** 3082

Road Transport ADR / ORD: 9 Class: Packaging group: Ш

**UN Proper Shipping Name:** Environmentally

hazardous substance,

liquid, N.O.S.

(Imazethapyr 100 g/e)

Maritime Transport IMDG / IMO:

Class: Ш Packaging group:

**UN Proper Shipping Name:** Environmentally

hazardous substance,

liquid, N.O.S.

(Imazethapyr 100 g/ $\ell$ )

Marine pollutant (Y/N): Yes Air Transport IATA / ICAO:

Class: 9 Ш Packaging group:

**UN Proper Shipping Name:** Environmentally

hazardous substance,

liquid, N.O.S.

(Imazethapyr 100 g/e)

Special / Environmental Precautions: Wedge drums

tightly to avoid movement.

Transport in bulk: Refer to MARPOL 73/78, Annex II

and the IBC code.

### 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 1, 5, 10, 20 and 25 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

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 and 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.