

# IMAGINE 750 SG

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** IMAGINE 750 SG  
**Other identifier:** IMAZALIL 750 SG  
**Recommended use:** Fungicide  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd  
 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](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

| UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP]<br>EU & SANS 10234:2008 |                   |              |
|--|-------------------|--------------|
| Hazard classes   | Hazard categories | H-statements |
| <b>Health</b>  |                   |              |
| Oral   | Acute Toxicity 3  | H301         |
| Dermal   | Skin Irritation 3 | H316         |
| Eye  | Eye Dam 1         | H318         |
| Inhalation   | Acute Toxicity 4  | H332         |
| Carcinogenic   | Carcinogenic 2    | H351         |
| Specific target organ toxicity following repeated exposure           | STOT RE 1         | H372         |
| <b>Environment</b>   |                   |              |
| Aquatic chronic  | Aquatic chronic 1 | H410         |

**The most important adverse effects:**  
**Physiochemical effects:** None known  
**Human health effects:**  
 Causes serious eye damage.  
 Suspected of causing cancer.  
 Causes damage to organs through prolonged or repeated exposure.

## Label elements:



**Signal word:** Danger.  
**Hazard statements:**  
 H301: Toxic if swallowed.  
 H316: Causes mild skin irritation.  
 H318: Causes serious eye damage.  
 H332: Harmful if inhaled.  
 H351: Suspected of causing cancer.  
 H372: Causes damage to organs through prolonged or repeated exposure.  
 H410: Very toxic to aquatic life with long lasting effects.  
**Precautionary statements:**  
 P202: Do not handle until all safety precautions have been read and understood.  
 P260: Do not breathe mist, vapours and spray.  
 P264: Wash hands and face thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P271: Use only outdoors or in a well-ventilated area.  
 P273: Avoid release into the environment.  
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER.  
 P302+P352: IF ON SKIN: Wash with plenty of water and soap.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
 P308/313: If exposed or concerned: Get medical attention.  
 P310: Immediately call a POISON CENTRE.  
 P330: Rinse mouth.  
 P405: Store locked up.  
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.  
**Other hazards:**  
 None known.  
**Toxicity:**  
 Classification according to GHS: Category 3  
 Classification according to WHO: Group II  
 Classification according to GPIC: Category II

# IMAGINE 750 SG

# SAFETY DATA SHEET

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

| Chemical name          | CAS        | Conc. (m/m %) | Classification EC 1272/2008  |
|------------------------|------------|---------------|--|
| Imazalil               | 35554-44-0 | 75 %          | Acute Toxicity 3 (H301)<br>Eye Damage 1 (H318)<br>Acute Toxicity 4 (H332)<br>Carcinogenic 2 (H351)<br>Aquatic Chronic 1 (H410) |
| Silica White           | 14464-46-1 | < 5 %         | STOT RE 1 (H372)   |
| Sodium dodecyl sulfate | 151-21-3   | < 5 %         | Acute Toxicity 4 (H302)<br>Skin Irritation 2 (H315)<br>Eye Damage 1 (H318)<br>Aquatic Chronic 3 (H412)                         |

## 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, **seek medical attention**.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs or if patient feels unwell after inhalation.

**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 for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

**Ingestion: Immediately 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, repeatedly administer water in large quantities.

**Anticipated acute effects:** Toxic if swallowed.

**Anticipated delayed effects:** Suspected of causing cancer.

**Most important symptoms / effects:** None known.

**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.

**Unsuitable Extinguishing Media:** High volume water jet. Use a water jet only to cool heated containers.

**Specific hazards:** Hazards or hazardous products arising from combustion

**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 and eyes. Do not breathe in spray mist or dust. Ventilate area of spill or leak, especially in contained areas.

**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 will cause 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

**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

# IMAGINE 750 SG

# SAFETY DATA SHEET

suitable detergent. See section 13 for disposal considerations. Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. 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. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations).

## 7. HANDLING AND STORAGE

### Handling:

**Precautions for safe handling:** Toxic if swallowed. Avoid contact with skin and eyes. 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:** Plastic bags / containers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Permissible concentration

| Components   | Exposure limits        | Type of exposure limit | Source         |
|--------------|------------------------|------------------------|----------------|
| Silica White | 0.05 mg/m <sup>3</sup> | TWA                    | "www.osha.gov" |

### 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:** Use a NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours. This product is harmful if inhaled.

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

**Eye Protection:** The use of chemical safety goggles is recommended to prevent against eye contact. **This product causes serious eye damage.** Contact lenses are not protective eye devices.

**Skin and Body Protection:** Employees must wear appropriate protective clothing, rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

**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:** Beige to white granule.

**Odour:** Slight phenol odour.

**Odour threshold:** Not available.

**pH (1% aqueous dilution):** 1.7 (1% solution).

**Melting point:** 128-134 °C.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not available.

**Flammability:** Not flammable.

**Upper / lower explosion limits:** Not available.

**Vapour Pressure (mm Hg):** Not available.

**Relative Vapour Density:** Not available.

**Density / Relative density:** Not available.

**Solubility:** Readily soluble in water >500 g/l.

**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. Avoid contact with aluminium, copper and mild steel.

**Reactivity:** None known.

**Possibility of hazardous reactions:** Unlikely to occur.

**Conditions to avoid:** Extreme heat or exposure to flames

## IMAGINE 750 SG

## SAFETY DATA SHEET

**Incompatible materials:** Incompatible with strong alkalis. The product is compatible with many other fungicides when used at normal rates. However, a compatibility test is required before using with other products. Do not physically mix powder directly with other pesticide concentrates, always dilute first.

**Hazardous decomposition products:** Formation of toxic oxides of carbon, nitrogen and chlorine on heating.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY:

Calculated according to GHS:

**Oral LD<sub>50</sub>** (24h) > 290 mg/kg (rat)

**Dermal LD<sub>50</sub>** > 5000 mg/kg (rabbit)

**Inhalation LC<sub>50</sub>** (4h) > 2.4 mg/l (rat)

**Skin Irritation / Corrosion:** May cause mild but temporary skin irritation.

**Eye Damage / Irritation:** May cause serious eye damage.

**Skin Sensitization:** Product is not a skin sensitizer.

**Respiratory Sensitization:** Not available.

**Reproductive cell mutagenicity:** Not available.

**Carcinogenicity:** Suspected of causing cancer.

**Reproductive toxicity:** Not available.

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

**Specific target organ toxicity – repeated exposure:** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard:** Not available.

**Chronic Effects:** Not available.

#### POTENTIAL ADVERSE EFFECTS:

**Inhalation:** Not available.

**Ingestion:** Not available.

### 12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects.

#### ECOTOXICITY DATA:

##### Active ingredient (Imazalil)

##### Fish:

|                         |                  |           |
|-------------------------|------------------|-----------|
| LC <sub>50</sub> (96 h) | Rainbow trout    | 1.5mg/l   |
|                         | Bluegill sunfish | 4.04 mg/l |

##### Daphnia:

|                         |  |          |
|-------------------------|--|----------|
| EC <sub>50</sub> (48 h) |  | 3.5 mg/l |
|-------------------------|--|----------|

##### Algae:

|                                       |             |           |
|---------------------------------------|-------------|-----------|
| E <sub>b</sub> C <sub>50</sub>        | Green algae | 0.87 mg/l |
| E <sub>r</sub> C <sub>50</sub> (72 h) | Green algae | 1.20 mg/l |

##### Birds:

|                               |                    |                  |
|-------------------------------|--------------------|------------------|
| Acute oral LD <sub>50</sub>   | Ring-neck pheasant | 2000 mg/kg       |
|                               | Bobwhite quail     | 510 mg/kg        |
| Dietary LD <sub>50</sub> (8d) | Mallard ducks      | >5620 mg/kg diet |

#### Bees:

LD<sub>50</sub> oral 40 µg/bee

#### Worms:

LC<sub>50</sub> 541 mg/kg soil

### ENVIRONMENTAL EFFECTS

**Based on information for the active ingredient (Imazalil)**

**Plants:** Imazalil is transformed into α-(2,4-dichlorophenyl)-1H-imidazole-1-ethanol.

**Persistence and degradability:** Imazalil were 9% mineralised after 100 d in soil

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

**Mobility in soil:** K<sub>oc</sub>/K<sub>om</sub> 2080-8150 mg/ (FAO specifications)

**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:** Empty containers by inverting the empty container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

### 14. TRANSPORT INFORMATION

**UN Number:** 2588

**Road Transport ADR / ORD:**

|                          |  |
|--------------------------|--|
| Class:                   | 6.1  |
| Packaging group:         | III  |
| UN Proper Shipping Name: | PESTICIDE, SOLID, TOXIC, N.O.S. (Imazalil 750 g/l) |

**Maritime Transport IMDG / IMO:**

|                          |  |
|--------------------------|--|
| Class:                   | 6.1  |
| Packaging group:         | III  |
| UN Proper Shipping Name: | PESTICIDE, SOLID, TOXIC, N.O.S. (Imazalil 750 g/l) |

**Marine pollutant (Y/N):** Yes

**Air Transport IATA / ICAO:**

|                  |     |
|------------------|-----|
| Class:           | 6.1 |
| Packaging group: | III |

## IMAGINE 750 SG

## SAFETY DATA SHEET

UN Proper Shipping Name: PESTICIDE, SOLID, TOXIC, N.O.S. (Imazalil 750 g/l)

**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 670 g & 1 kg plastic bags / containers, labelled according to South African regulations and guidelines.

**Other hazard statements, abbreviations and explanations:**

**H302:** Harmful if swallowed.

**H315:** Causes skin irritation.

**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.

**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.