

# DESTINAIRE®

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** DESTINAIRE®  
**Other identifier:** Methylated seed oil-based adjuvant  
**Recommended use:** Adjuvant  
**Restrictions on use:** Agriculture

**Registration Holder:** Winfield Solutions Registration Holdings (Pty) Ltd.

Co Reg No 2015/312008/07  
 PO Box 10413  
 Aston Manor, 1630, South Africa

**Telephone:** (011) 3962233

**Fax:** (011) 3964666

**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

**Distributor:** Villa Crop Protection (Pty) Ltd.

PO Box 10413  
 Aston Manor, 1630, South Africa

**Telephone:** (011) 3962233

**Fax:** (011) 3964666

**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] EU & SANS 10234:2008

Hazard classes	Hazard categories	H-statements
<b>Health</b>		
Inhalation	Acute Tox. 4	H332

**The most important adverse effects:**

**Physiochemical effects:**

None known

**Human health effects:**

Harmful if inhaled.

**Label elements:**



**Signal word:** Warning.

**Hazard statements:**

H332: Harmful if inhaled.

**Precautionary statements:**

P261: Avoid breathing dust, fume, gas, mists, vapours or spray.

P271: Use only outdoors or in a well-ventilated area.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Special labelling of certain mixtures:**

None known.

**Other hazards:**

None known.

**Toxicity:**

Classification according to GHS: Category 4.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

**Composition:**

Chemical Name	CAS	Conc. (% m/v)	Classification EC 1272/2008
Soybean Oil Methyl Esters	67784-80-9	< 60 %	Not Classified
High Fructose Corn Syrup	977042-84-4	< 30 %	Not Classified

None of the components were deemed toxic by the European Chemical Agency.

## 4. FIRST AID MEASURES

Remove victim from the area of exposure. Wash off remaining material with plenty of water.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

**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.

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

**Skin:** Flush skin with water and then wash with soap and 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:** Use carbon dioxide, dry chemical foam, water fog or halogenated agents.

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

**Specific hazards:** Phosphorous oxides, carbon monoxide, carbon dioxide, ammonia or nitrogen oxides.

**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. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without 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:** Do not breathe in 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:** Evacuate non-essential personnel downwind of the spill.

**Environmental Precautions:** Keep spilled product from entering sewers, waterways or ground water.

**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:** Harmful if inhaled. 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. Workers should shower at the end of each workday. Launder all clothing before it is re-used again.

**Storage:**

**Conditions for safe storage:** Store in its original container in dry, cool, well-ventilated area above 0°C. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

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

**Packaging material:** Fluorinated plastic containers.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration:**

No components have exposure limits.

**Engineering Controls:**

Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Personal Protective Equipment:**

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area, use a OSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use.

**Hand Protection:** Wear chemically protective gloves to prevent repeated exposure to the skin.

**Eye Protection:** Chemical safety goggles should be used to prevent eye contact. An emergency eyewash or water supply should be readily accessible to the work area.

**Skin and Body Protection:** Wear long-sleeve shirt, long pants and shoes plus socks to prevent prolonged or repeated skin contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Orange or dark amber liquid.

**Odour:** No odour.

**pH (1% aqueous dilution):** 6.0 @ 26 °C.

**Melting point:** Not determined.

**Freezing Point:** Not determined.

**Boiling Point:** > 100 °C.

**Flash Point:** > 94 °C.

**Flammability:** Not flammable.

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

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

**Relative Vapour Density:** Not available.

**Density:** 1.007 g/ml @ 28 °C.

**Solubility:** Forms an emulsion in water.

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**n-octanol/water partition coefficient:** Not available.  
**Auto-ignition temperature:** Not available.  
**Decomposition temperature:** Not available.  
**Viscosity:** Not determine.

### 10. STABILITY AND REACTIVITY

**Chemical Storage 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:** Will not occur.

**Conditions to Avoid:** Avoid extreme heat or exposure to flames.

**Incompatible Materials:** Oxidizing agents.

**Hazardous Decomposition Products:** Combustion products: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, phosphorous oxides.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY:

**Based on experimental data:**

**Oral LD<sub>50</sub>:** > 5000 mg/kg.

**Dermal LD<sub>50</sub>:** > 5050 mg/kg.

**Inhalation LC<sub>50</sub>:** > 2.32 mg/l (4 hr).

**Skin irritation:** Slightly irritating.

**Eye irritation** Minimal irritating. Animal tests showed no irritation was observed in eyes.

**Skin Sensitization:** Not a skin sensitizer (guinea pigs).

**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:** Not available.

**POTENTIAL ADVERSE EFFECTS:** **UN Number: Not regulate**

**Inhalation:** May cause minor irritation of the upper respiratory tract.

**Skin contact:** May cause mild but reversible skin irritation.

**Eye contact:** May cause mild but reversible eye irritation.

**Ingestion:** May cause gastric upset if swallowed.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** This product is not anticipated to have negative environmental effects. However, care should be taken to prevent releases into the environment in quantities greater than the recommended application rates.

### ECOTOXICITY DATA:

#### Fish:

LC<sub>50</sub> (96 hr) Rainbow trout 21.71 mg/l

NOEC (96 hr) Rainbow trout 15 mg/l

#### Daphnia:

EC<sub>50</sub> (48 hr) 26.83 mg/l

NOEC (48 hr) 12.5 mg/l

**Aquatic Plant Toxicity:** Not determined.

**Bird Acute and Prolonged Toxicity:** Not determined.

**Honeybee Toxicity:** Not determined.

#### ENVIRONMENTAL EFFECTS:

**Soil Absorption/Mobility:** Not determined.

**Persistence and degradability:** Not determined.

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

**Other adverse effects:** Not determined.

### 13. DISPOSAL CONSIDERATIONS

**Waste:** 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.

**Container:** Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting 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](http://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.

Comply with local legislation applying to waste disposal.

### 14. TRANSPORT INFORMATION

**UN Number: Not regulated.**

Not Classified i.e., considered non-hazardous material according to UN Orange Book and international transport codes, e.g., Road Transport **ADR/ORD**, Maritime Transport **IMDG/IMO**, and Air Transport **IATA/ICAO**.

**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:**

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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 500 ml, 1; 5; 10 and 20 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 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.