

**OTHELLO TOP™  
MATERIAL SAFETY DATA SHEET**

**SECTION 1 Chemical product and Company identification**

Product Name: Othello Top™ (Azoxystrobin + Difenoconazole)

Chemical name

*Azoxystrobin:* : methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate

*Difenoconazole:* cis-trans-3-chloro-4-[4-methyl-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]  
phenyl 4-chlorophenyl ether

Formula:

*Azoxystrobin:* C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>O<sub>5</sub>

*Difenoconazole:* C<sub>19</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>

Product Use: Fungicide

Supplier: SINERIA HOLLAND BV

Randwycksingel 20-A015

6229 EE Maastricht The Netherlands

www.sineria.com

**SECTION 2 Composition/Information on Ingredients**

<u>Product Name</u>	<u>Content (%)</u>	<u>CAS RN</u>
Azoxystrobin	20%	131860-33-8
Difenoconazole	15%	119446-68-3

**SECTION 3 Hazards Identification**

Toxicity:

- This product is unlikely to present a toxicity hazard during normal use

Swallowed: Tests on rat, (LD50 >2000 mg/kg)

Dermal Tests on rat, absorption: (LD50 >2000 mg/kg)

Inhaled: Not available

Irritation

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Eye: Mild Irritant ( rabbit)

Skin: Slight Irritant (rabbit)

Sensitisation Skin: NOT a sensitiser

Poisoning symptoms

Swallowed: Swallowing large amounts may result in nausea and vomiting.

Eye: Not expected to be an eye irritant.

Skin: Not expected to cause skin irritation. Unlikely to cause skin sensitisation.

Inhaled: May cause respiratory irritation as a vapor, mist or aerosol entering mucous membranes and respiratory tract.

*CHRONIC*: No information available

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#### **SECTION 4 First Aid Measures**

- In case of poisoning by any exposure route contact a doctor or Poisons Information Centre.

Swallowed: Rinse mouth with water. Give water to drink. DO NOT induce vomiting. Seek medical advice

Eye: Flush with large quantities of clean tap water for at least 15 minutes. Seek medical assistance.

Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. If irritation occurs seek medical advice.

Inhaled: Move affected person to fresh air and remove contaminated clothing. Seek medical advice if effects persist.

ADVICE TO DOCTOR: Treat symptomatically

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#### **SECTION 5 Fire Fighting Measures**

- This product is non-combustible. However, following evaporation of aqueous component residual material may burn if ignited.
  - Extinguish warehouse and factory fires using water fog (or, if unavailable, fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).
  - During a fire this product will release smoke and toxic products. When fighting a fire wear an air-supplied respirator.
  - Do not allow runoff or product to enter drains.
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#### **SECTION 6 Accidental release measures**

General and disposal: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

Procedure for spill:

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- Keep all bystanders away.
  - Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.
  - Reposition any leaking containers so as to minimise further leakage.
  - Dam and absorb spill with an absorbent material (e.g. sand or soil).
  - Shovel the absorbed spill into drums. Disposal of the absorbed material will depend upon the extent of the spill.
    - For quantities up to 50L of product bury in a secure landfill site.
    - For quantities greater than 50L seek advice (use emergency contact number below) from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
  - Decontaminate the spill area with detergent and water and rinse with water
  - Prevent runoff from entering drains and waterways
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#### **SECTION 7 Handling and storage**

Handling: Avoid contact with eyes or clothing. Do not use near heat or open fire.

Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Store in a cool and dry place out of reach of children. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

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#### **SECTION 8 Exposure controls/Personal protection**

Applicable control measures, including engineering controls: Ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV for atrazine. Warehouses, production area, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

Personal protective equipment for each exposure route

Ingestion: Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Prevent eating, drinking, tobacco usage and cosmetic application in the area where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye contact: Wear safety glasses or goggles when direct exposure to product, splash or spray is likely.



Skin contact: Wear full working clothing, enclosed boots, and a hat. Wear nitrile gloves and an apron if direct contact with the product or spray mix is likely.

Inhalation: Respirator is not normally required. Use a dust mask or pesticide respirator if ventilation is not adequate.

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#### **SECTION 9 Physical & Chemical properties**

Appearance: Light yellow granule

pH: 6-9

Acidity: 0.5% max.

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#### **SECTION 10 Stability & Reactivity**

Stability: Stable under normal condition

Conditions to avoid: None known

Incompatibility with other materials: None known

Hazardous decomposition products: Carbon monoxide, hydrogen cyanide and acetonitrile.

Hazardous polymerization: Will not occur.

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#### **SECTION 11 Toxicological Information**

Acute Toxicity:

- This product is unlikely to present a toxicity hazard during normal use

Oral: LD<sub>50</sub> >2000 mg/kg (Rats)

Dermal: LD50 >2000 mg/kg (Rats)

Inhalation: Not available

Irritation

Eye Irritation: Mild Irritant (rabbit)

Skin Irritation: Slight Irritant (rabbit)

Skin Sensitisation: NOT a sensitiser

Chronic Toxicity: No information available

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### **SECTION 12 Ecological Information**

Birds Acute Oral: LD50 for mallard ducks and bobwhite quail >2000 mg/kg.

Sub-acute dietary: LC50 (5d) for bobwhite quail and mallard ducks >5200 mg/kg diet.

Fish: LC50 (96 h) for rainbow trout 0.47, bluegill sunfish 1.1, carp 1.6, sheepshead minnow 0.66 mg/l.

For degradate R234886, LC50 >150 mg/l.

Daphnia: EC50 (48 h) 259 mg/l.

EC50 for degradates: R234886 >180, R401553 >50, R402173 >50 mg/l.

Algae: EC50 (120 h) for green algae 0.12 mg/l.

Other aquatic spp.: LC50 for mysid shrimp 55 µg/l; EC50 for pacific oyster 1300µg/l, *Lemna gibba* 3.2 mg/l.

Bees: LD50 for honeybees >200 µg/bee.

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### **SECTION 13 Disposal Considerations**

Dispose of empty, used containers by:

- Triple rinse or preferably pressure rinse containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
  - If recycling, replace cap and return clean containers to recycler or designated collection point.
  - If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.
  - Burning of empty containers if circumstances, especially wind direction, permit is an alternative method.
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### **SECTION 14 Transport Information**

Shipping information such as shipping classification: TRANSPORTATION OF DANGEROUS GOODS

CLASSIFICATION - ROAD/RAIL Shipping Name and Class: Environmentally hazardous substances, liquid.

UN: 3082,

Class: 9.2

Packing Group: III

Regulated Limit: Packages sizes below 1 L are not regulated.

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#### **SECTION 15 Regulatory Information**

- Xn: Harmful
  - N: Dangerous for the environment
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#### **SECTION 16 Other Information**

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

Sineria makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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