

Material Safety Data Sheet

Zeus - זיאז

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Version: 2

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Zeus

Use: Fungicide

Formulation Type: SC

Manufacturer: Tapazol Chemical works Ltd.

Address: HaSolela 1, West Ind. Zone, Beit Shemesh, 99052.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Azoxystrobin	131860-33-8	250
Propylene Glycol	57-55-6	70-80
Other non-hazardous ingredients	N/A	650-700

3. HAZARDS IDENTIFICATION

The product is harmful by ingestion, inhalation and in contact with skin.

The product is toxic to fish and other aquatic organisms.



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4. FIRST AID MEASURES

Eyes: Flush eyes with large amounts of water while eyelids are open for at least 15 minutes. If irritation develops and persists, get medical attention.

Skin: Flush with large amounts of water. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation develops and persists, get medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest and get prompt medical attention.

Inhalation: Immediately remove the affected victim from exposure to an area of fresh air. Administer artificial respiration if breathing has stopped. Keep at rest and call for prompt medical attention.

Note to physician: No specific antidote, treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: >100⁰C.

Flammable properties: Not flammable.

Extinguishing media: Water spray, foam, dry chemical, CO₂.

Protective equipment: Normal protective gear and self-contained breathing apparatus.

Hazardous products of combustion may include: Smoke, toxic and irritating gases.

More information: Do not allow run-off from the fire enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Environmental Protection: Prevent the material from entering sewage and water courses.

Procedure: Absorb with material such as sand or soil and collect into containers for disposal. Dike area in case of large spills and report. For spills in public area, keep public away and advise local authorities. Wash clothes, equipment and work area after cleaning.

7. HANDLING AND STORAGE

Storage: Store in tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight and out from the reach of children. Do not store with food, feedstuffs, fertilizers and seeds.

Handling: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Do not eat, drink or smoke while handling.

Change clothes and wash thoroughly when finishing working with the product.

Wash working clothes in separate from household laundry and do not re-use clothes that are not washed.

See product label for further handling/storage precautions relative to the end use of this product.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls: If airborne mists or vapors are likely to be generated, use local exhaust ventilation controls.

Eye/ Face protection: If there is splash hazard, chemical goggles with side shields are required.

Skin/Body protection: Long working clothes, closed shoes with socks and chemical resistant gloves (e.g PVC).

Respiratory protection: Normally not required, but if airborne concentration may be high, an approved respirator with ABEK filter is needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white liquid.

Boiling point: $>100^{\circ}\text{C}$.

Water solubility: Forms a suspension.

Density: 1.07 (20°C).

Viscosity: 800-900 mPa*s

pH: 7

10. STABILITY AND REACTIVITY

Chemical stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Heat, flame, ignition sources, strong acids and bases.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: >2000 mg/kg.

Dermal: LD50 for rat: >2000 mg/kg.

Inhalation: LC50 (4h) for rat: >1.59 mg/l.

Skin irritation: Non-irritant (rabbit).

Eye irritation: Non-irritant (rabbit).

Skin sensitization: Non-sensitizer (mice)

Chronic toxicity:

The non-active ingredient Propylene Glycol may have mutagenic and reproductive effects.

12. ECOLOGICAL INFORMATION

For AI Azoxystrobin:

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

Daphnia: EC50 (48h): 80 µg/l.

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

Dietary LC50 (5d) for bobwhite quail and mallard ducks: >5200 mg/kg diet.

Bees: LD50 oral: >25 µg/l, LD50 contact: >200 µg/l.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces.

14. TRANSPORT INFORMATION

Air transport - IATA DGR:

UN no.: 3082

Proper shipping name: Environmentally hazardous substance, liquid, N.O.S
(Azoxystrobin)

Class: 9

Packaging group: III

15. REGULATORY INFORMATION

R phrases:

R20: Harmful by inhalation

R21: Harmful in contact with skin

R22: Harmful if swallowed

R51/53: Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment

S phrases:

S3/7/9: Keep container tightly closed in a cool, well-ventilated place

S20/21: When using do not eat, drink or smoke

16. OTHER INFORMATION

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