

Material Safety Data Sheet

Azoxystrobin 20% + Difenoconazole 12.5% SC

1. PRODUCT IDENTIFICATION

Product Name: Azoxystrobin 20% + Difenoconazole 12.5% SC
 Common Name: Azoxystrobin + Difenoconazole
 Chemical Family: Methoxyacrylate (Azoxystrobin)
 Triazole (Difenoconazole)
 Chemical Formula: C₂₂H₁₇N₃O₅ (Azoxystrobin)
 C₁₉H₁₇Cl₂N₃O₃ (Difenoconazole)
 Chemical Name: methyl (*E*)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate. (Azoxystrobin)
cis,trans-3-chloro-4-[4-methyl-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether.(Difenoconazole)
 CAS No.: 131860-33-8 (Azoxystrobin)
 119446-68-3(Difenoconazole)
 Product Use: Fungicide

2. COMPANY IDENTIFICATION:

Exporter:

CHICO CROP SCIENCE CO., LTD.

Add: Rm 903, Unit C, Tian An International Bldg., Renmin South Rd.,
 Shenzhen, China.

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E-mail: chico1@chicocrop.com

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>CAS Registry Number</u>	<u>Typical Wt. w/v</u>
Azoxystrobin	131860-33-8	20%
Difenoconazole	119446-68-3	12.5%
Inert	-	to balance

4. HAZARDS IDENTIFICATION

Emergency Overview

Off-white viscous liquid

CAUTION!

KEEP OUT OF REACH OF CHILDREN

MAY CAUSED SKIN SLIGHT IRRITATION

MAY CAUSED EYE SLIGHT IRRITATION



Potential Health effects

Dermal contact, ingest and inhalation of the product are the primary routes to induce potential adverse health effects. Inhalation of aerosol during application of the product as part of its end use is another potential route of entry. Eye and skin irritation may occur from contact with the liquid or spray mixture.

5. FIRST AID MEASURES

If swallowed: If ingestion is suspected, using one or two glasses of water and induce vomiting by touching back of throat with finger. Never give anything by mouth to an unconscious person. Should be send to the hospital treatment immediately.

If in eye: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the advice of a physician.

If on skin: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

If Inhaled: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician:

There is no specific antidote, Treat symptomatically.

6. FIRE FIGHTING MEASURES

Fire and explosive Properties

Auto-Ignition Temperature	Not applicable
Flash Point	Not available, the solvent is water.

Extinguishing Media

Water fog, Carbon Dioxide, Dry Chemical, Foam and halogenated agents.

Fire Fighting Instructions

The product is not flammable. But if firing, fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use. Person who may have been exposed to contaminated smoke should be immediately examined

by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

7. ACCIDENTAL RELEASE MEASURES

In Case Of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Absorb, sweep up, place in container for disposal. Shut off or remove all ignition sources. Prevent waterway contamination. Construct a dike to prevent spreading. Protect works with water spray. Collect run-off water and transfer to drums or tanks for later disposal.

8. HANDLING AND STORAGE

Handling

Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation. Do not breathe gas or allow to get in eyes, on skin, or on clothing. Wash hands, arm and face thoroughly with soap and warm water after use and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse. Do not contaminate feed or food items. Keep out of reach of children.

Storage

Store in a cool dry and air ventilating warehouse and protected from light. Avoid contacting with food, feed stuff and seed.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection

Goggles and full face shield should be used when needed to prevent liquid from face and getting into the eyes.

Skin Protection

Avoid skin contact. Use chemical-resistant gloves, and wear long sleeves and trousers to prevent dermal exposure.

Respiratory Protection

Under normal handling conditions no respiratory protection is needed. However, if needed to prevent respiratory irritation, either a respirator approved for dusts and mists, or one approved for pesticides.

10. PHYSICAL AND CHEMICAL PROPERTIES

Color: Off-white

Physical state:	Liquid
Odor:	Not obvious odor
Melting point	116 °C; (tech., 114–116 °C) (Azoxystrobin); 82.0–83.0 °C (Tech.) (Difenoconazole) .
Boiling point:	decomp. 345 °C (Azoxystrobin); 100.8 °C/3.7 mPa (Difenoconazole).
Vapor pressure:	1.1×10^{-7} mPa (20 °C) (Azoxystrobin); 3.3×10^{-5} mPa (25 °C) (Difenoconazole)
Solubility in water	In water 6 mg/l (20 °C). (Azoxystrobin); In water 15 mg/l (25 °C). (Difenoconazole) .
Solubility in organic solvents:	In hexane 0.057, <i>n</i> -octanol 1.4, methanol 20, toluene 55, acetone 86, ethyl acetate 130, acetonitrile 340, dichloromethane 400 (all in g/l, 20 °C). (Azoxystrobin); In acetone, dichloromethane, toluene, methanol and ethyl acetate >500, hexane 3, octanol 110 (all in g/l, 25 °C). (Difenoconazole) .
Partition coefficient:	$K_{ow} \log P = 2.5$ (20 °C) (Azoxystrobin); $K_{ow} \log P = 4.4$ (25 °C) (Difenoconazole) .

11. STABILITY AND REACTIVITY

Stability

DT_{50} for aqueous photolysis 2 w. Stable to hydrolysis at pH 5–7 and room temperature. (Azoxystrobin);
Stable up to 150 °C. Hydrolytically stable. (Difenoconazole)

Hazardous Polymerization

Does not occur.

Incompatibility

The product is not compatible with alkaline material.

Hazardous Decomposition Products

Not available

12. TOXICOLOGICAL INFORMATION

- Acute Oral:** Acute oral LD₅₀ for male and female rats and mice >5000 mg/kg. (Azoxystrobin);
Acute oral LD₅₀ for rats 1453, mice >2000 mg/kg. (Difenoconazole)
- Acute Dermal:** Acute percutaneous LD₅₀ for rats >2000 mg/kg. (Azoxystrobin);
Acute percutaneous LD₅₀ for rabbits >2010 mg/kg. (Difenoconazole)
- Irritation:** Non-irritating to eyes and to skin (rabbits). (Azoxystrobin);
Non-irritant to eyes and skin (rabbits). (Difenoconazole)
- Sensitisation:** Not a skin sensitiser (guinea pigs). (Azoxystrobin).
Non-sensitising to skin (guinea pigs). (Difenoconazole)
- Long-term Studies:** Not genotoxic, carcinogenic or neurotoxic; Azoxystrobin and Difenoconazole has no effect on fertility parameters nor on foetal or infant development.

13. ECOLOGICAL INFORMATION

Ecotoxicological Information

Azoxystrobin

Effects on Birds: Acute oral LD₅₀ for mallard ducks and bobwhite quail >2000 mg/kg.
Dietary LC₅₀ (5 d) for bobwhite quail and mallard ducks >5200 mg/kg diet.

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

Effects on Bees: LD₅₀ for honeybees (oral) >25 µg/bee; (contact) >200 µg/bee.

Difenoconazole

Effects on Birds: Acute oral LD₅₀ (9–11 d) for mallard ducks >2150, Japanese quail >2000 mg/kg b.w. Dietary LC₅₀ (5 d) for bobwhite quail 4760, mallard ducks >5000 ppm.

Effects on Fish: LC₅₀ (96 h) for rainbow trout 1.1, bluegill sunfish 1.3, sheepshead minnows 1.1 mg/l.

Effects on Bees: Non-toxic to honeybees; LD₅₀ (oral) >187 µg/bee; LC₅₀ (contact) >100 µg/bee.

Chemical Fate Information

No data are available

14. DISPOSAL CONSIDERATIONS

Waste Disposal

Pesticide wastes are acutely hazardous. Do not reuse product containers. Dispose product containers, waste containers, residues according local health and environmental regulations.

15. TRANSPORT INFORMATION

N/A

16. REGULATORY INFORMATION

Symbol: Xn
R phrase: R₂₂
S phrase: S_{1/2}, S_{3/7}, S_{20/21}, S_{24/25}

17. OTHER INFORMATION

The information contained herein relates only to the specific material identified. We believe that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the reliability or completeness of the information. Urge persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.