

MATERIAL SAFETY DATA SHEET

Etoxazole 110 g/L SC

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Etoxazole 110 g/L SC
Chemical Name:	Etoxazole: (RS)-5-tert-butyl-2-[2-(2,6-difluorophenyl)-4,5-dihydro-1,3-oxazol-4-yl]phenetole
Type:	Insecticide/Acaricide
Molecular formula:	C ₂₁ H ₂₃ F ₂ NO ₂
Company:	UPI CROPSCIENCE CO., LTD.
Address:	C-312 Hi-Tech Information Plaza No.8 Huatian Road Huayuan Tianjin City 300384 P.R. China.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NO.	CONTENT, G/L
Etoxazole	153233-91-1	110
Inert ingredient	-	890

SECTION 3: HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to the criteria of the Australian Safety and Compensation Council (ASCC).

Risk Phrases:

R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S23 – Do not breathe fumes / vapour / spray.

S25 – Avoid contact with eyes.

SUSDP Classification (Poison Scheduling): Exempt from scheduling

ADG Classification: Not subject to the ADG Code when transported by Road and Rail. (ADG 7, Special Provision AU01).

SECTION 4: FIRST AID MEASURES

General: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Swallowed: If swallowed, do not induce vomiting. Wash mouth with water. Give water to drink. Seek medical advice.

Skin contact: If on skin, remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before re-use. Seek medical advice if irritation develops.

Eye contact: If in eyes, hold eyes open and flood with water for at least 15 minutes and seek medical advice.

Inhalation: If affected, remove from contaminated area to fresh air. If any signs or symptoms occur or persist, seek medical advice.

Note to physician: Apply basic aid and decontamination procedures. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Small fire: Use dry chemical, carbon dioxide, water spray or foam (alcohol resistant foam is preferred fire fighting medium, but, if it is not available, normal foam can be used). Large fire: Use water spray, fog or foam (alcohol resistant foam is preferred fire fighting medium, but, if it is not available, normal foam can be used).

Hazards from Combustion Products: Normal combustion forms carbon dioxide, water vapour and may produce: Oxides of nitrogen. Combustion may produce toxic: Fluorine compounds. Incomplete combustion can produce carbon monoxide.

Precautions for Fire Fighting and Special Protective Equipment: Products of combustion from fires involving this material may be toxic and irritating. Ensure respiratory equipment is available. Evacuate immediate area. Advise Fire Brigade of nature of hazard. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Remove drums from site of fire, if possible, as overheating may cause some of the drums to explode. Cool surrounding containers using a fine water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before use.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills: Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Do not allow material to enter sewers or bodies of water.

Small Spills: (Liquid spill): Apply absorbent inert material such as soil, dry sand or vermiculite to the spill area. Sweep up material when absorption is complete and contain in a refuse vessel for disposal. If necessary, wash the spill area with an alkali detergent and water and absorb and contain as above. **Large Spills:** (Liquid Spill): Place leaking containers into salvage drums. Apply absorbent inert material such as soil, dry sand or vermiculite to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity, using soil or other non reactive material. Sweep up material and contain in a refuse vessel for disposal. Contact emergency services as required.

Spills in Water: Stop or reduce contamination of any water. Isolate contaminated water. Remove contaminated water for treatment or disposal.

Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: DO NOT USE OR STORE near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Keep out of reach of children, unauthorised persons and animals. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and water.

Conditions for Safe Storage: Keep out of reach of children, unauthorised persons and animals. Store in the closed, original container in a well ventilated area, as cool as possible, although avoid freezing. Do not store for prolonged periods in direct sunlight. Do not store near food, feedstuffs, fertiliser or seed. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and water.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS

Exposure standards represent the air borne concentrations of individual chemical substances, which according to current knowledge, should neither impair the health of, nor cause undue discomfort to, nearly all workers. A time weighted average (TWA) concentration for an 8 hour



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day, and 5 day week has not been established by the Australian Safety and Compensation Council (ASCC) for any of the major ingredients in this product. Hence, there is no exposure standard allocated to this product.

ENGINEERING CONTROLS Use only in well ventilated areas. Avoid generating or inhaling mists. If you believe air borne concentrations of mists or vapours are high, you are advised to modify the process or environment to reduce the problem. Keep container tightly closed.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use only in well ventilated areas. Respiratory protection is recommended.

Hand Protection: Wear chemical resistant gloves.

Eye Protection: Avoid contact with eyes. Eye contact can be avoided by wearing protective eyewear.

Skin and Body Protection: Avoid contact with skin or clothing. Skin contact should be minimised by wearing protective clothing including gloves, hat, long sleeved shirt, long pants and chemical resistant boots.

Other Information: Wash hands after use. Launder clothes, gloves and face shield or goggles before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white Liquid

Flammability: Not flammable

Explosiveness: Not explosive

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage and handling conditions.

Conditions to Avoid: Do not store for prolonged periods in direct sunlight. Isolate from sources of heat, naked flames or sparks.

Incompatible Materials: Do not mix this material with water except for the normal preparation.

Hazardous Decomposition Products: May emit toxic fumes under fire conditions.

Hazardous

Reactions: None known

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ for rats >5000 mg/kg.

Acute percutaneous: LD₅₀ for rats >2000 mg/kg

Irritation: Non-irritating to skin and eyes (rabbits).

Inhalation LC₅₀ (4 h) for rats >1.09 mg/L.

Skin sensitization: Not a skin sensitizer to guinea pigs.

SECTION 12: ECOTOXICOLOGY INFORMATION

The following information is for active ingredient, Etoxazole

Birds: Acute oral LD₅₀ for mallard ducks >2000 mg/kg. Sub-acute oral LD₅₀ (5 d) for bobwhite quail >5200 ppm diet.

Fish: LC₅₀ for bluegill sunfish 1.4 mg/l (*EU Rev. Rep.*). LC₅₀ (96 h) for Japanese carp 0.89 mg/l; (48 h) for Japanese carp >20, rainbow trout >40 ppm.

Daphnia: LC₅₀ (3 h) >40 ppm.

Algae: EC₅₀ for *Selenastrum capricornutum* >1.0 mg/l.

Other aquatic spp.: Disruption of moulting was observed in aquatic arthropods.

Bees: LD₅₀ (oral and contact) >200 µg/bee.

Worms: NOEL (14 d) for *Eisenia foetida* >1000 ppm

SECTION 13: DISPOSAL CONSIDERATION

This material must be disposed of as a hazardous waste. Disposal should be in accordance with local, national or state regulations.

Contaminated Packaging: Triple or preferably pressure rinse containers before disposal. Add rinsings to 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 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SECTION 14: TRANSPORT INFORMATION

IMDG Code:



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Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Etoxazole 110 g/L SC)

Hazard Class: 9

UN Number: 3082

Packing Group: III

IATA DGR:

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ADR:

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SECTION 15: REGULATORY INFORMATION

Follow local regulations.

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 combinations with other materials or in processes other than those specifically described herein.