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MATERIAL SAFETY DATA SHEET

Azoxystrobin 250 g/L SC

Sinon Corporation MSDS Data Bank No. AFF31-A25SC04

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According to European Commission Directive 2001/58/EC, 2001/60/EC, 1999/45/EC, 67/548/EEC & 1907/2006/EC

1. IDENTIFICATION OF PRODUCT AND MANUFACTURER

1.1. Identification:

Product name : Azoxystrobin 250 g/L SC
Chemical name : Methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxy propenoate
Empirical formula : C₂₂H₁₇N₃O₅
Molecular weight : 403.39
Uses : Fungicide

1.2. Manufacturer:

Sinon Corporation
23, Sec. 1, Mei Chuan W. Road, Taichung, Taiwan, R.O.C.
Tel: 886-4-2372 6181 Fax: 886-4-2375 0574
Location of plant
111, Chung Shan Road, Ta-Tu Dist., Taichung, Taiwan, R.O.C.
Tel: 886-4-2693 3841 Fax: 886-4-2693 3713

1.3. Emergency Telephone:

886-4-2693 4261

2. HAZARDS IDENTIFICATION

2.1. Classification:

Acute Oral: Category 5; Chronic Aquatic: Category 1.

2.2. Labelling:



2.3. Signal word:

WARNING

2.4. Hazard statement:

H303: May be harmful if swallowed.
H400: Very toxic to aquatic life with long lasting effects.

2.5. Precautionary Statement Prevention:

P273: Avoid release to the environment.

2.6. Precautionary Statement Response:

P312: Call a POISON CENTER/doctor/if you feel unwell.
P391: Collect spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Content
Azoxystrobin	131860-33-8	250 g/l
Other ingredients	--	Balance to 1 L

4. FIRST AID MEASURE

4.1. First Aid:

Ingestion : Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical assistance.

Inhalation : Move affected person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable

position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Eyes contact : Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Seek medical assistance.

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

4.2. Advices to Medical Treatment:

Basic treatment: Establish a patent airway. Suction if necessary. Watch for signs of respiratory insufficiency and assist ventilations if needed. Administer oxygen by non-rebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary. Do not use emetics.

Advanced treatment: Consider orotracheal or nasotracheal intubation for airway control in the patient who is unconscious, has severe pulmonary edema, or is in respiratory arrest. Positive pressure ventilation techniques with a bag valve mask device may be beneficial. Monitor cardiac rhythm and treat arrhythmias as necessary.

4.3. Antidote:

There is no specific antidote for strobilurin fungicide exposures. Treatment is SYMPTOMATIC and SUPPORTIVE.

5. FIRE FIGHTING MEASURE

5.1. Extinguishing Media:

Extinguish using water spray, carbon dioxide, dry chemical powder, or appropriate foam.

5.2. Fire Fighting Instructions:

Do not allow fire-water to enter drains.

5.3. Special Protective Equipment for Fire-fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.4. Hazardous Heating Decomposed Products:

Fire may produce irritating, corrosive and/or toxic gases.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions:

Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.

6.2. Environmental Precautions:

Washings must be prevented from entering surface water drains or waterways. Avoid contaminate the environment.

6.3. Methods for Cleaning Up:

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimize further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand, soil, diatomaceous earth or vermiculite).
- (5) Shovel the absorbed spill into drums.

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(6) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

(7) Contaminated material must be disposed of in accordance with all local authority requirements.

7. HANDLING AND STORAGE

7.1. Handling:

Avoid contact with eyes and skin. Do not inhale spray mist. Wash hands after use.

7.2. Storage:

Store in tightly sealed original containers in a dry secure place away from fertilizers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Limits:

OSHA PEL: Not Established (azoxystrobin)
 ACGIH TLV: Not Established (azoxystrobin)
 NIOSH REL: Not available
 TWA (mg/m³): 2 (azoxystrobin)

8.2. Occupational Exposure Controls:

Respiratory protection : Government approved respirator.

Hand protection : Compatible chemical-resistant gloves.

Eye protection : Chemical safety goggles.

Skin protection : Avoid skin contact by wearing suitable protective clothing. Remove contaminated clothing and wash before re-wearing.

8.3. Environmental Exposure Controls:

In the Workplace: ensure ventilation is adequate and that air concentrations of components are controlled below quote Workplace Exposure Standards. Keep containers closed when not in use. No special requirements. Product is used outdoors.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White to light yellow viscous liquid
Odor : Mild characteristic odor
Boiling Point : Not available
Melting Point : Not applicable
Vapor Pressure : 1.1×10^{-7} mPa (20°C)(Tech.)
Density : Approx. 1.074
Solubility : Dispersible
pH : Approx. 6.41 (1% w/v solution)
Volatility : Not available
Evaporation Rate : Not available
Log P_{ow} : 2.55 (pH 4), 2.64 (pH 7), 2.61 (pH 9)(25°C) (Tech.)
Flammability : No flash point
Explosive Properties : Not explosive
Oxidizing Properties : Compatible with water, monoammonium phosphate, iron powder and kerosene; but incompatible with potassium permanganate.

10. STABILITY AND REACTIVITY

10.1. Stability:

Stable at room temperatures and pressures.

10.2. Conditions to Avoid:

None known

10.3. Materials to Avoid:

None known

10.4. Hazardous Polymerization:

Will not occur.

11. TOXICOLOGICAL INFORMATION

11.1. Acute Toxicity:

Acute oral : LD₅₀ in rats 2,500 mg/kg
Acute dermal : LD₅₀ in rats >4,000 mg/kg
Acute inhalation : LC₅₀ (4 h, nose-only) for rats >2.089 mg/L
Eye irritation : No eye irritation (rabbits)
Skin irritation : No skin irritation (rabbits)
Skin sensitization : Not a skin sensitizer in guinea pigs

11.2. Chronic Toxicity:

NOEL (2 yr) for rats 18 mg/kg b.w. daily.

11.3. Mutagenic Toxicity:

Not genotoxic, carcinogenic or neurotoxic; azoxystrobin has no effect on fertility parameters nor on foetal or infant development.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity:

Bird toxicity : Acute oral LD₅₀ for Japanese quail (*Coturnix coturnix japonica*) 2706.8 mg/kg.
Fish toxicity : LC₅₀ (96-h) for Zebra fish (*Danio rerio*) 5.66 mg/L.
Daphnia toxicity : EC₅₀ (48-h) for *Daphnia similis* 0.606 mg/L
Alga toxicity : EC₅₀ (72-h) for freshwater green algae (*Pseudokirchneriella subcapitata*) 1.14 mg/L
Bee toxicity : Contact LD₅₀ for honeybees (*Apis mellifera*) >400 µg/bee
Toxic to other organisms : LC₅₀ for earthworm (*Eisenia foetida*) >1,000 mg/kg soil dry weight

12.2. Mobility:

Azoxystrobin is expected to have low mobility in soil, and expected to adsorb to suspended solids and sediment in water.

12.3. Persistence and Degradability:

Azoxystrobin is moderately persistent in soil in the absence of light.

12.4. Bioaccumulative Potential:

An estimated BCF of 17 suggests the potential for bioconcentration in aquatic organisms is low.

12.5. Other Adverse Effects:

No information is available.

13. DISPOSAL CONSIDERATIONS

These should be burnt in a proper incinerator. When no incinerator is available bury in an approved dump or in an area where there is no risk of, contamination of ground or surface water. Dispose in accordance with applicable laws and regulations.

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14. TRANSPORT INFORMATION

14.1 Water Transport (IMDG) - International:

Proper shipping name: Environmentally Hazardous Substance,
Liquid, N.O.S. (contain AZOXYSTROBIN)
UN number : 3082
Hazard Class : 9
Packing group : III

14.2 Air Transport (IATA) - International:

Proper shipping name: Environmentally Hazardous Substance,
Liquid, N.O.S. (contain AZOXYSTROBIN)
UN number : 3082
Hazard Class : 9
Packing group : III

15. REGULATORY INFORMATION

EC Number (EINECS):
Not allocated

16. OTHER INFORMATION

Hazardous Rating Systems:

NFPA: Health= 1 /Flammability= 0 /Reactivity= 0

EC Classification (Assigned): (According to Directive 2001/60/EC)

Risk phrase:

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

Safety phrase:

- S2 Keep out of reach of children.
- S13 Keep away from food, drink and animal feedingstuffs.
- S20/21 When using, do not eat, drink or smoke.
- S35 This material and its container must be disposed of in a safe way.
- S57 Use appropriate containment to avoid environmental contamination.

END OF MSDS

Although the information in this MSDS was obtained from sources which we believe to be reliable, it can not be guaranteed. In addition this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purposes only, without any representation or warranty express or implied.

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