

# NINGBO FINECHEM IND. CO., LTD.

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Azoxystrobin TC

IUPAC name:

methyl

(E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate Chemical abstracts name:

methyl

 $(E)-2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-\alpha-(methoxymethylene) benzene acetate$ 

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>O<sub>5</sub> Molecular Weight: 403.39 g/mol CAS-No.: 131860-33-8

#### **3. HAZARDS IDENTIFICATION**

Emergency Overview	
OSHA Hazards	
Highly toxic by inhala	tion
HMIS Classification	
Health Hazard: 2	
Flammability: 0	
Physical hazards: 0	
NFPA Rating	
Health Hazard: 2	
<b>Fire</b> : 0	
Reactivity Hazard: 0	
<b>Potential Health Effects</b>	
Inhalation	May be fatal if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### lf inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.



## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **If swallowed** 

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point: no data available

Ignition temperature: no data available

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and



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approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form crystalline Colour white Safety data no data available pН Melting point 116°C Boiling point no data available Flash point no data available Ignition temperature no data available Lower explosion no data available limit Upper explosion no data available limit Water solubility no data available Kow logP 2.5(20°C) Density 1.34(20°C)

# **10. STABILITY AND REACTIVITY**

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

# 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Acute oral LD<sub>50</sub> for male and female rats and mice >5000mg/kg Acute percutaneous LD<sub>50</sub> for rats >2000mg/kg LC<sub>50</sub> (4h, nose only) for male rats 0.96 mg/l, female rats 0.69mg/l Irritation and corrosion



Slight eye and skin irritation (rabbits)

#### Sensitisation

Not a skin sensitizer (guinea pigs)

# Chronic exposure

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Potential Health Effects**

Inhalation	May be fatal if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin
	irritation.
-	

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

#### 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

- no data available
- E cotoxicity effects

Toxicity to	Oncorhynchus mykiss (rainbow trout) - > 150 mg/l -
fish Toxicity to	96 h EC50 - Daphnia magna (Water flea) - 0.259 mg/l - 48
daphnia and	h
•	
daphnia and other aquatic invertebrates.	h

#### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

# **13. DISPOSAL CONSIDERATIONS**

#### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix



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the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

### DOT (US)

UN-Number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (Azoxystrobin) Marine pollutant: No

Poison Inhalation Hazard: No

## IMDG

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Azoxystrobin) Marine pollutant: No

#### IATA

UN-Number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic n.o.s. (Azoxystrobin)

## **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Highly toxic by inhalation

#### **DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Azoxystrobin CAS-No.131860-33-8

# SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard

# Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Azoxystrobin CAS-No.131860-33-8 Revision Date

#### New Jersey Right To Know Components

Azoxystrobin CAS-No.131860-33-8 Revision Date

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.



# **16. OTHER INFORMATION**

None

-----THE END------