

**TIDE INTERNATIONAL USA, INC.****—A DIVISION OF TIDE GROUP**

REVISION DATE: 10/08/2023    VERSION 3.0

**[1. Identification]**

Product name: Tide Azoxystrobin 2SC

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

Chemical family: Strobilurin

EPA Reg. No.: 84229-47

Recommended Use: Fungicide

Importer/Supplier: Tide International USA, Inc.  
21 Hubble, Irvine, CA 92618  
(949) 679-3535  
www.Tide-USA.com

For medical or chemical\* emergencies:  
\*Spill, leak, fire, exposure or accident      Call CHEMTREC®: 1-800-424-9300 (24 hours/day)

For non-emergency product information:      Call the NATIONAL PESTICIDE INFORMATION CENTER  
1-800-858-7378 (Monday - Friday, 8-12 PM Pacific time)

**[2. Hazard(s) Identification]****According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR §1910.1200 (2012)****Classification of the substance or mixture:** Mixture**GHS classification**

Short-term (Acute) Aquatic Hazard (Category 2)

Long-term (Chronic) Aquatic Hazard (Category 2)

**GHS label elements:****GHS pictograms****Signal Word:** None**GHS hazard statements:**

H401      Toxic to aquatic life.

H411      Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

None

**Prevention:**

P273      Avoid release to the environment not in accordance with the product label.

**Response:**

P391      Collect spillage.

**Disposal:**

P501      Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

**Routes of exposure:** Skin, eyes, mouth, lungs.

**Carcinogenicity:** No carcinogenic effects observed in rats or mice at doses up to the maximum tolerated dose.

**Hazards not otherwise classified (HNOC):** Do not mix or allow coming into contact with oxidizing agent. Hazardous chemical reaction may occur.

### [3. Composition / Information on Ingredients]

According to Hazard Communication Standard (HCS) or 29 CFR §1910.1200 (2012).

Active ingredient	CAS No.	Content (w/w, %)
Azoxystrobin	131860-33-8	22.5-23.9
Propylene glycol	57-55-6	Trade secret
Fatty Alcohol Ethoxylate	68131-39-5	1.1 max
1,2-benzisothialin-3-one	2634-33-5	0.1 max
Other ingredient deemed not to be hazardous*	Proprietary	Balance

\*Ingredients not specifically listed are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

### [4. First Aid Measures]

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Most important symptoms/effects, acute and delayed:** No information available.

**Note to physician:** There is no specific antidote, treatment symptomatically.

### [5. Fire-Fighting Measures]

**Suitable extinguishing media:** Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires: alcohol-resistant foam, water spray

**Unsuitable extinguishing media:** High volume water jet.

**Special hazards arising from the chemical (hazardous combustion products):** Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**Special protective equipment and precautions for fire-fighters:** A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

**Advice for firefighters:** Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustions. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water run-off can cause environmental damage. If water is used to fight fire, dike and collect runoff.

### [6. Accidental Release Measures]

**Personal precautions, protective equipment and emergency procedures:**

**Precautions:** Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

**Environmental precautions:** Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Methods and materials for containment and cleaning up:**

Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or seep up material and place into a disposal container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into a compatible disposal container. On soils, small amounts

will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

Large spills should be handled according to a spill plan. Otherwise, in case of emergency call day or night, 1-800-424-9300.

## [7. Handling and Storage]

### **KEEP OUT OF REACH OF CHILDREN!**

#### **Precautions for safe handling:**

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### **Conditions for safe storage, Including any incompatibilities:**

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

## [8. Exposure Controls / Personal Protection]

#### **Control parameters:**

Components	CAS-No	Control parameters	Basis
Azoxystrobin	131860-33-8	NOT ESTABLISHED	N/A
Propylene glycol	57-55-6	10 mg/m <sup>3</sup> (particulates)	UK HSE TWA, 8h

#### **Appropriate engineering controls:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides(40 CFR 170.240 (d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

#### **Personal protective equipment:**

Always follow the label instructions when handling this product. In all other cases the following recommendations would apply. Applicators should wear long sleeve shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber, shoes plus socks, and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately

**Respiratory protection:** No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

**Hand protection:** Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

**Eye protection:** Eye protection is not usually required. Follow any site specific eye protection policies.

**Skin and body protection:** Skin and Body Protection: To avoid contact with skin, wear coveralls over with long- or short-sleeved shirt and long or short pants, chemical-resistant footwear plus socks and chemical resistant gloves. Wear chemical-resistant apron when cleaning equipment, mixing or loading. For overhead exposure, wear chemical-resistant headgear. An emergency eyewash or water supply should be readily accessible to the work area.

## [9. Physical and Chemical Properties]

**Appearance (physical state, color etc.):** Off-white opaque liquid

**Odor:** A characteristic odor

**Odor threshold:** No data available

**pH value:** 5-7 (1 % aq.)

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** Not applicable

**Flash point (setaflash closed cup):** 116°C

**Evaporation rate:** No data available

**Flammability (solid, gas):** Not applicable.

**Upper/lower flammability or explosive limits:** Not applicable

**Vapor pressure:** No data available

**Vapor density:** No data available

**Bulk Density:** 1.0-1.15 g/mL (20°C)

**Solubility(ies):** No data available

**Partition coefficient: n-octanol/water:** Azoxystrobin: 2.5

**Auto-ignition temperature:** 887°F (475°C)

**Decomposition temperature:** No data available

**Viscosity:** 865.0-195.0 mPa\*s, 20°C; 689.3-158.2 mPa\*s, 40°C

**Note** Physical data are typical values based on material test but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis or as a specification.

## **[10. Stability and Reactivity]**

**Reactivity:** None reasonably foreseeable.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.

**Conditions to avoid:** No decomposition if used as directed.

**Incompatible materials:** None known.

**Hazardous decomposition products:** No hazardous decomposition products are known.

## **[11. Toxicological Information]**

Acute toxicity data have been bridged from a very similar formulation containing a similar concentration of the active ingredient, azoxystrobin. The non-acute information pertains to the technical-grade active ingredient.

**Exposure routes:** Skin, eyes, mouth, lungs.

**Acute toxicity:**

**Acute oral (rats):** LD<sub>50</sub> > 5,000 mg/kg body weight.

**Acute inhalation (rats):** LC<sub>50</sub> > 6.32 mg/l - 4 hours.

**Acute dermal:** LD<sub>50</sub> > 2,000 mg/kg body weight.

**Skin irritation (rabbits):** No irritation.

**Eye irritation (rabbits):** No irritation.

**Sensitization (guinea pig):** No sensitization.

**Specific Target Organ Toxicity (STOT) Single Exposure:**

Azoxystrobin: Not classified as a specific target organ toxicant, single exposure.

**Specific Target Organ Toxicity (STOT) Repeated Exposure:**

Azoxystrobin: No adverse effect has been observed in chronic toxicity tests.

**Carcinogenicity:**

Azoxystrobin: Did not show carcinogenic effects in animal experiments. (EPA)

**Reproductive Toxicity:**

Azoxystrobin: Did not show reproductive toxicity effects in animal experiments.

**Mutagenicity:**

Azoxystrobin: Did not show mutagenic effects in animal experiments.

## [12. Ecological Information]

### **Aquatic toxicity**

96 hours LC<sub>50</sub>, Rainbow trout - 2.4 mg/L

96 hours LC<sub>50</sub>, Bluegill sunfish - 1.1 mg/L

48 hours EC<sub>50</sub>, Daphnia magna (Water flea) – 0.47 mg/L

120 hours ErC<sub>50</sub> Fresh Water Algae – 2.0 mg/L

120 hours NOEC Fresh Water Algae – 0.038 mg/L

Green Algae ErC<sub>50</sub> – 0.26 mg/l

Green Algae EBC<sub>50</sub> – 0.23 mg/l

**Persistence/Degradability:** Not persistent in soil and stable in water.

**Bioaccumulative potential:** Does not bioaccumulate.

**Mobility in soil:** Low to very high mobility in soil.

**Other adverse effects:** Not applicable.

### **Environmental precautions:**

Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

## [13. Disposal Considerations]

Dispose of contents and container in accordance with local regulations. End users must dispose of any unused product as per the label recommendations.

**Pesticide disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container disposal:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

## [14. Transport Information]

### **D.O.T.**

**UN number:** 3082

**Shipping Description:** Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin)

**D.O.T. Hazard Class:** 9

**Packing group:** III

**Marine pollutant (Yes/No):** Yes

### **IMDG/IMO**

**UN number:** 3082

**UN proper shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin)

**Hazard Class:** 9

**Packing group:** III

**Marine pollutant (Yes/No):** Yes

### **ICAO/IATA**

**UN number:** 3082

**UN proper shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin)

**Hazard Class:** 9

**Packing group:** III

**Marine pollutant (Yes/No):** Yes

## **[15. Regulatory Information]**

### **FIFRA**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

**EPA Reg. No.:** 84229-47

**EPA signal word:** Caution

### **PRECAUTIONARY STATEMENTS**

#### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates.

#### **GROUND WATER ADVISORY**

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### **SURFACE WATER ADVISORY**

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months after application.

Notify State and/or Federal authorities and Tide International, USA, Inc. immediately if you observe any adverse environmental effects due to use of this product.

#### **PHYSICAL OR CHEMICAL HAZARDS**

Do not mix or allow coming into contact with oxidizing agent. Hazardous chemical reaction may occur.

### **US Federal Regulations**

**TSCA list:** Exempt from TSCA, subject to FIFRA.

**SARA Title III - Section 302 - notification and information:** None

**SARA Title III - Section 313 - toxic chemical release reporting:** None

**SARA Title III - Section 311/312 - hazard identification**

Acute (immediate) Health Hazardous

This product contains none of the components listed as Extremely Hazardous substances.

### **US States Regulatory Reporting**

#### **CA Prop 65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

#### **US State Right-To-Know Ingredients**

CAS# 57-55-6 can be found on the following state right to know lists: Pennsylvania, Minnesota.

### **Canadian Regulations**

All ingredients are on the inventory or exempt from Canadian's DSL list.

### **Environmental**

#### **CERCLA**

None

### **Clean Water Section 307 Priority Pollutants**

None

**Safe Drinking Water Act Maximum Contaminant Levels**

None

**RCRA Classification:** Not applicable

**[16. Other Information]**

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Tide International USA, Inc. assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data.*