



## **SECTION 1: IDENTIFICATION**

Product Name: Strobe 2L EPA Registration No.: 53883-393

**Recommended Use:** Fungicide; See product label for a complete list of uses and use sites. **Restrictions on Use:** See product label for any restrictions on the use of this product.

Chemical Family: Strobilurins
Chemical Name of
Active Ingredient(s):

Active Ingredient(s):

Manufactured for: Control Solutions, Inc.

5903 Genoa-Red Bluff Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

# **SECTION 2: HAZARD(S) IDENTIFICATION**

EMERGENCY OVERVIEW: Off white liquid with a faint paint-like odor. Harmful if inhaled.

**OSHA HCS CLASSIFICATION (29 CFR 1910.1200)** 

Acute Inhalation Toxicity Category 4

Signal Word: WARNING

(!)

Hazard Statement(s): Harmful if inhaled.

**Precautionary Statement(s):** 

**Prevention:** Avoid breathing mist/vapors/spray.

Use only outdoors or in a well ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a poison center/doctor if you feel unwell.

**Storage:** No statements required. See Section 7 for storage information. **Disposal:** No statements required. See Section 13 for disposal information.

## **SECTION 3: COMPOSTION/INFORMATION ON INGREDIENTS**

| Chemical Name | CAS Number  | Weight % |
|---------------|-------------|----------|
| Azoxystrobin  | 131860-33-8 | 22.9%    |

<sup>\*</sup>Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

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| SECTION 4: FIR | SECTION 4: FIRST AID MEASURES   |  |  |  |  |
|----------------|---|--|--|--|--|
| IF IN EYES:    | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.  |  |  |  |  |
| IF ON SKIN:    | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.  |  |  |  |  |
| IF INHALED:    | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.   |  |  |  |  |
| IF INGESTED:   | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |  |  |  |  |

Most important symptoms/effects, acute and delayed: None known

## **SECTION 5: FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide or water spray

Unsuitable Extinguishing Media: Water jet

**Hazardous Combustion Products:** Burning may produce oxides of nitrogen and carbon.

**Special Protective Equipment &** 

**Precautions:** 

Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear

(Bunker gear).

**Unusual Fire & Explosion** 

Hazards:

None known

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** See Section 8 for personal protection equipment.

Environmental Precautions: Keep spilled material and any rinsate from contaminating soil or from entering

sewage and drainage systems and bodies of water.

**Methods for Containment:** Isolate the spill area. Keep unnecessary and unprotected personnel from

entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed

material to solidify and scrape up for disposal.

**Methods for Clean-up:** Place contaminated material in appropriate container for disposal. After

removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put

spilled material back in the original container.

Other Information: None known

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#### **SECTION 7: HANDLING AND STORAGE**

Handling:

RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Storage:

See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

Storage Temperature (Min/Max): Not determined Product Incompatibilities: None known

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

#### **Exposure Guidelines:**

| COMPONENT            | OSHA PEL | ACGIH TLV | NIOSH REL |
|----------------------|----------|-----------|-----------|
| No components listed |          |           |           |

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne

concentrations below OSHA PELs or other specified exposure limits. Local exhaust

ventilation is preferred.

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with

cartridges/canisters approved for pesticides.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile,

neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using

the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately

from other laundry.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Off white liquid **Upper/Lower Flammability Limits:** Not determined Odor: **Vapor Pressure:** Not determined Faint paint-like **Odor Threshold:** Not determined Not determined **Vapor Density:** 5.0 - 6.5Relative Density (@24°C): pH: 1.068 (typical) **Melting /Freezing Point:** Not determined **Solubility:** Not determined **Partition Coefficient: Boiling Point/Range:** Not determined Not determined Flash Point: Not determined **Auto-ignition Temperature:** Not determined **Evaporation Rate:** Not determined **Decomposition Temperature:** Not determined Flammability: Not applicable **Viscosity:** 117.29 cSt @ 25°C

### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** No hazardous chemical reactions known.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** No potential for hazardous reactions known.

**Conditions to Avoid:** Avoid temperatures above 115°F and high moisture.

Incompatible Materials: None known

Hazardous Decomposition Products: May decompose to oxides of nitrogen and carbon under fire

conditions.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eye contact, Skin contact, Inhalation, Ingestion

Symptoms of Exposure: Moderate eye irritation
Oral LD₅o: >5,000 mg/kg (rat)
Dermal LD₅o: >5,050 mg/kg (rat)

Inhalation LC<sub>50</sub>: 2.11 mg/L (4-hour) No mortality occurred during the study and no symptoms of

toxicity were observed.

**Eye Irritation/Damage:** Non-irritant (rabbit) **Skin Corrosion/Irritation:** Non-irritant (rabbit)

**Skin Sensitization:** Non-sensitizer (guinea pigs)

Chronic/Subchronic Toxicity: LOAEL for Azoxystrobin = 82.4/117 mg/kg/day (M/F) based on reduced body

weights in both sexes and bile duct lesions in males. NOAEL = 18 mg/kg/day via ingestion. A 28-Day inhalation toxicity study in rats on a different SC formulation had an LOAEL =  $12.2 \, \mu g/L$  based on adverse histopathological changes in the larynx (squamous metaplasia) and nasal cavity (metaplasia of the respiratory epithelium.). There was an increase severity with increases in

the test concentrations.

Mutagenicity: No data available

**Reproductive Toxicity:** No increased susceptibility was seen in rats and rabbits exposed *in utero* 

and/or postnatally to azoxystrobin.

**Neurotoxicity:** Azoxystrobin is not considered to be neurotoxic.

Target Organs:No data availableAspiration Hazard:No data available

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**Carcinogenicity:** Azoxystrobin is classified as "Not Likely" to be carcinogenic to humans by

EPA.

| Chemical Name        | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
| No components listed |       |      |     |      |

#### **SECTION 12: ECOLOGICAL INFORMATION**

## **Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not apply directly to water except as specified on the 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.

## **ECOTOXICITY DATA:**

Fish Toxicity: Azoxystrobin Technical: Rainbow Trout - 96 hr LC<sub>50</sub> = 0.47 mg/L

Azoxystrobin Technical: Fathead minnow - NOAEC = 0.147 mg/L (reduction

in length)

Azoxystrobin Technical: Sheepshead minnow - 96 hr  $LC_{50}$  = 0.67 mg/L

**Aquatic Invertebrate Toxicity:** Azoxystrobin Technical: *Daphnia magna* – 48 hr LC<sub>50</sub> = 0.26 mg/L

Azoxystrobin Technical: Mysidopsis bahia – 96 hr EC<sub>50</sub> = 0.056 mg/L

Aquatic Plant Toxicity: No data available

**Avian Toxicity:** Azoxystrobin Technical: Northern Bobwhite Quail LD<sub>50</sub> >2,000 mg/kg bw

Azoxystrobin Technical: Canary LD<sub>50</sub> >2,000 mg/kg bw

Azoxystrobin Technical: Northern Bobwhite Quail LC<sub>50</sub> >5,200 mg/kg diet

**Honeybee Toxicity:** Azoxystrobin Technical: Contact LD<sub>50</sub> >200 μg/bee

**ENVIRONMENTAL EFFECTS:** 

Persistence and Degradability: No data available
Bioaccumulation: No data available
Mobility: No data available
Other Adverse Effects: No data available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal: Refer to the pesticide label for full information on disposal. Pesticide wastes are

toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in

proper disposal methods.

Container Disposal: Refer to the pesticide label for full information on disposal. When possible, triple

rinse the container and offer for recycling if available.

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the

RCRA classification and hazard status of the waste.

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## **SECTION 14: TRANSPORTATION INFORMATION**

DOT

Not regulated

(Ground):

UN3082, Environmentally Hazardous Substance, N.O.S. (Azoxystrobin), 9, PGIII, Marine

(Sea):

**Pollutant** 

IATA

UN3082, Environmentally Hazardous Substance, N.O.S. (Azoxystrobin), 9, PGIII

(Air):

**IMDG** 

### **SECTION 15: REGULATORY INFORMATION**

Labeling Requirements Under 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. Following is the hazard information as required on the pesticide label:

#### **CAUTION**

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.

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA

regulated use.

**SARA Title III Information:** 

Section 302 – Extremely hazardous substances: None

**Section 311/312 – Hazard Categories:** Acute (Immediate)

Section 313 – This product contains a chemical or chemicals which are subject to the reporting

requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % | SARA 313 – Threshold |
|---------------|------------|----------|----------------------|
|               |            |          | Values (lbs)         |
| None listed   |            |          |                      |

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of<br>Finished Product |
|---------------|------------|----|---------------------------------|
| None listed   |            |    |                                 |

# **CALIFORNIA PROPOSITION 65:**

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------|------------|-----------------------|
| None listed   |            |                       |

#### **U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

| Chemical Name    | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| Propylene glycol |            |               | X            |

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## **SECTION 16: OTHER INFORMATION**

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