

### SECTION 1 - PRODUCT AND MANUFACTURER INFORMATION

**TRADE NAMES AND SYNONYMS**

TRILEX™ Flowable Fungicide

**CHEMICAL NAMES AND SYNONYMS**

Fungicide

**CHEMICAL FAMILY**

Mixture

**FORMULA**

Mixture

**PRODUCT CODE**

7501-199

**MANUFACTURER'S NAME AND ADDRESS**

Gustafson LLC  
 1400 Preston Road, Suite 400  
 Plano, TX 75093  
 (972) 985-8877 (8:00am-5:00pm Central Time)  
 (972) 964-6544 (FAX)  
 www.gustafson.com

**24-HR. EMERGENCY PHONE NUMBERS**

CHEMTREC: (800) 424-9300 (Toll free)  
 (703) 527-3887 (US & International)

**ADDITIONAL EMERGENCY PHONE NUMBERS**

Gustafson: (972) 771-2741 [After Hours]  
 Gustafson: (972) 542-1375 [After Hours]

**PREPARED BY:**

Environmental, Health & Safety  
 Revised Date: 03/05 (Supersedes: 09/03)

**NOTE TO END-USERS:** This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid, and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

### SECTION 2 – COMPOSITION AND INGREDIENT INFORMATION

CHEMICAL NAME (INGREDIENTS)	CAS NUMBER	HAZARD	% BY WEIGHT
Trifloxystrobin	141517-21-7	Sensitization	22
*Antifreeze	*	Slight Eye Irritant	*
*Clay	*	Irritant	*
*Surfactant	*	Irritant	*

*\*Trade secret information available as provided in 29 CFR 1910.1200 (i)*

For EXPOSURE GUIDELINES, see page 3, Section 8 of this MSDS.

### SECTION 3 - HAZARDS IDENTIFICATION

**EFFECTS OF OVEREXPOSURE**

**ACUTE (SHORT TERM EXPOSURE):**

Overexposure may cause eye irritation and skin sensitization.

**CHRONIC (LONG TERM EXPOSURE):**

Trifloxystrobin is not mutagenic or teratogenic.

**GENERAL PRECAUTIONS:**

Always practice good industrial hygiene; handle with care; avoid personal contact. Do not get into eyes or on skin; do not breathe mist or vapor of product. Do not swallow. Wash hands with soap and water and rinse after handling product. Shower after each shift. Wash all work clothing and completely clean all PPE (personal protective equipment) after each shift.

### SECTION 3 - HAZARDS IDENTIFICATION - Continued

#### MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

N/E

PRIMARY ROUTE OF ENTRY:       INHALATION                       INGESTION                       ABSORPTION

### SECTION 4 - FIRST AID INFORMATION

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

**IF IN EYES:**                      Hold eye open and rinse slowly and gently with water for 15-20 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 15-20 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 SWALLOWED:**                      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.

**NOTE TO PHYSICIAN: (ANTIDOTE)**                      Treat symptomatically.

### SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT	FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT (LEL)	UPPER EXPLOSIVE LIMIT (UEL)
>200°F	N/A	N/A	N/A

#### EXTINGUISHING MEDIA:

FOAM       CO<sub>2</sub>       DRY CHEMICAL       WATER SPRAY       OTHER (SPECIFY):

#### SPECIAL FIRE FIGHTING PROCEDURES:

Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain run-off by diking to prevent entry into sewers or waterways. Equipment or materials involved in pesticide fires may become contaminated.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

In fire situations, toxic and corrosive hydrogen cyanide, hydrogen fluoride, carbon monoxide, nitrogen oxide, and oxides of sulfur may be released.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing vapors and skin contact. Remove sources of ignition if combustible or flammable vapors may be present and ventilate area. Wear proper protective equipment. Dike contaminated area with absorbent granules, soil, sand, etc. If large spill, material should be recovered. Small spills can be absorbed with absorbent granules, spill control pads, or any absorbent material. Carefully sweep up absorbed spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

#### REPORTABLE QUANTITY (RQ) UNDER CERCLA:

N/A

## SECTION 7 - STORAGE AND HANDLING INFORMATION

### STORAGE TEMPERATURES:

MAX N/E MIN N/E  INDOOR  OUTDOOR  REFRIGERATED

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in area designated specifically for pesticides. Do not store near any material intended for use or consumption by humans or animals. Store in a cool, dry area. Do not store in direct sunlight. Protect from freezing temperatures. Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment. Do not reuse empty container. Open dumping is prohibited.

### OTHER PRECAUTIONS

Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Control exposure levels through the use of general and local exhaust ventilation where needed.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**EYE/FACE PROTECTION:** Splash-proof goggles should be used to prevent liquid splashes from getting into the eyes.

**HAND/SKIN PROTECTION:** Wear long sleeved-shirt and trousers to prevent skin contact. The use of chemical-resistant gloves to prevent skin contact is recommended as good practice.

**RESPIRATORY PROTECTION:** Under normal handling conditions, no respiratory protection is needed; however, when potential exposure to this product is excessive, wear a dust/mist filtering respirator or a NIOSH approved respirator with any R, P, or HE filter.

**WORK PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing after use. Wash thoroughly after handling.

**NOTE TO END-USERS:** *The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.*

### EXPOSURE GUIDELINES

CHEMICAL NAME	CAS NUMBER	OSHA Permissible Exposure Limit (PEL)	ACGIH Threshold Limit Value (TLV)
Trifloxystrobin	141517-21-7	N/E	N/E
*Antifreeze	*	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
*Clay	*	5 mg/m <sup>3</sup> (resp. dust)	5 mg/m <sup>3</sup> (resp. dust)
*Surfactant	*	N/E	N/E

\*Trade secret information available as provided in 29 CFR 1910.1200 (i)  
VALUES ARE 8-HR. TIME-WEIGHTED-AVERAGES UNLESS OTHERWISE SPECIFIED

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Liquid	<b>pH (AS IS):</b>	6.5-8.0
<b>BOILING POINT (°F):</b>	N/E	<b>SOLUBILITY (WATER):</b>	N/E
<b>BULK DENSITY:</b>	9.1 lbs./gal.	<b>SPECIFIC GRAVITY:</b>	1.09
<b>COLOR:</b>	White to off white	<b>VAPOR DENSITY (Air = 1):</b>	N/E
<b>EVAP. RATE (BuAc=01):</b>	N/E	<b>VAPOR PRESSURE (mmHg):</b>	N/E
<b>FREEZING POINT (°F):</b>	N/E	<b>VISCOSITY:</b>	450-750
<b>ODOR:</b>	Mild	<b>% VOLATILE BY WEIGHT:</b>	N/E

**SECTION 10 - STABILITY AND REACTIVITY INFORMATION**

<b>CONDITIONS TO AVOID:</b>	N/E
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	N/E
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxide.
<b>STABILITY:</b>	<input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE
<b>HAZARDOUS POLYMERIZATION:</b>	<input type="checkbox"/> WILL OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR

**SECTION 11 - TOXICITY INFORMATION**

<b>ORAL LD<sub>50</sub></b> Rat >5,000 mg/kg	<b>DERMAL LD<sub>50</sub></b> Rabbit > 5,000 mg/kg	<b>INHALATION LC<sub>50</sub></b> Rat > 2.52 mg/L/4 Hrs. (no deaths)
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**EFFECTS TO EYES:**

Minimally irritating.

**EFFECTS TO SKIN:**

Slightly irritating. Product is not skin sensitizer by the Buehler method.

**CARCINOGENICITY REFERENCE SOURCES:**

<b>I.A.R.C.</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>N.T.P.</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>O.S.H.A.</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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**SECTION 12 - ECOLOGICAL INFORMATION**

This product is very toxic to aquatic organisms. 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. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spilled treated seeds.

**SECTION 13 - DISPOSAL CONSIDERATIONS****RCRA – FEDERAL HAZARDOUS WASTE INFORMATION:** N/A\*

\*See 40 CFR Part 261 and contact your local regulatory agency for additional information & requirements.

**PESTICIDE DISPOSAL:**

Follow container label instructions for disposal of wastes generated during use in compliance with the product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

**CONTAINER DISPOSAL:**

Triple rinse and recycle.

## SECTION 14 - TRANSPORT INFORMATION

**REGULATED BY:**  Domestic Road/Rail (DOT) [see below]  
 Export Water (IMO)  
 Air (ICAO/IATA)  
 Not regulated as a hazardous material by any mode of transportation.

### DOMESTIC ROAD/RAIL (DOT)

**Package Size:** Not regulated. [If shipped non-bulk, domestically, by road or rail.\*]  
**Proper Shipping Name:** N/A (see above).  
**ERG Number:** 171

**Marine Pollutant?**  Yes  No **Chemical (s):** \*Contact Gustafson EHS for more information.

**EXPORT WATER (IMO)** Contact Gustafson LLC Environmental Health & Safety for additional information.

**AIR (ICAO/IATA)** Contact Gustafson LLC Environmental Health & Safety for additional information.

### FREIGHT TARIFF DESCRIPTION

**Rate As:** Insecticide or Fungicide, N.O.I., Liquid, Other Than Poison

## SECTION 15 - REGULATORY INFORMATION

**SARA HAZARD CATEGORY** This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendments and Reauthorization Act Of 1986 (Sara Title III) and is considered, under applicable definitions, to meet the following categories:

**CERCLA/SARA:** Immediate (acute), delayed (chronic)  
**TPQ:** N/A  
**RQ:** N/A

**SARA 313 INFORMATION** This product contains the following substances subject to the reprint requirements of SARA Title III, Section 313 and 40 CFR Part 372:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
N/A	N/A	N/A

### STATES RIGHT-TO-KNOW LISTS

CHEMICAL & CAS #	CA (Prop. 65)	DE (Air Qual. Mgmt.)	FL (Toxic Subs.)	MA (Haz. Subs.)	MI (Critical Materials)	MN (Haz. Subs.)	NJ (RTK Haz. Subs.)	NY (Haz. Subs.)	PA (Haz. Subs.)	WA (PEL for Air)
*Antifreeze						X			X	

**THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS ON THE CLEAN AIR ACT (CAA) LIST OF HAZARDOUS AIR POLLUTANTS (HAP's):**

N/A

**THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS ON RCRA P OR U LISTS OF FEDERAL HAZARDOUS WASTE:** N/A\*

\*See 40 CFR Part 261 and contact your local regulatory agency for additional information and requirements.

**SECTION 16 - OTHER INFORMATION**

HMIS RATINGS		NFPA RATING	
HEALTH.....	1	HEALTH .....	1
FLAMMABILITY .....	1	FLAMMABILITY .....	1
REACTIVITY.....	1	REACTIVITY .....	1
PERSONAL PROTECTION.....	E	SPECIFIC HAZARD.....	N/A

**ABBREVIATION KEY**

N/A = Not Applicable	C = Ceiling Limit	STEL = Short Term Exposure Limit
N/D = Not Determined	rf = Respirable Fraction	SKIN = Skin Notation
N/E = Not Established	td = Total Dust	

**REFERENCES**

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