



Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under WHMIS. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EVITO™ 480 SC Fungicide
PMRA REGISTRATION NUMBER(S): 30408
SYNONYM(S): None

<u>COMPANY</u>
Arysta LifeScience North America LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513

<u>EMERGENCY TELEPHONE NUMBERS</u>	
HEALTH EMERGENCY:	SPILL EMERGENCY:
1-866-303-6952, or 1-651-632-8946	1-800-424-9300, or 1-703-527-3887

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient(s)/ Hazardous Inert Ingredient(s)	CAS #	Exposure Limits*	% Weight	% Volume
Fluoxastrobin: (E)-{2-[6-(2-chlorophenoxy)-5-fluoropyrimidin-4-yloxy]phenyl}(5,6-dihydro-1,4,2-dioxazin-3-yl)methanone O-methyloxime	361377-29-9	TWA^a OSHA PEL ^b : NA ACGIH TLV ^c : NA NIOSH REL ^d : NA	40.3	480 g/L

Only the identities of the active ingredient(s) and any hazardous inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

*Source: *Guide to Occupational Exposure Values 2008*, published by ACGIH

^a**TWA**: Time-weighted average exposure concentration for a conventional 8-hour (TLV, PEL) or up to a 10-hour (REL) workday and a 40-hour workweek.

^b**OSHA PEL**: Occupational Safety and Health Administration Permissible Exposure Limits.

^c**ACGIH TLV**: American Conference of Governmental Industrial Hygienists, Inc., Threshold Limit Values.

^d**NIOSH REL**: National Institute for Occupational Safety and Health Recommended Exposure Limits.

SECTION 3: HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

CAUTION:

- KEEP OUT OF REACH OF CHILDREN
- VERY TOXIC TO AQUATIC ORGANISMS
- MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Acute Health Hazards

Eye: This product is considered practically non-irritant to the eyes.

Skin: This product is considered practically non-irritant to the skin.

Ingestion: This product is considered practically non-toxic if swallowed.

Inhalation: This product is considered practically non-toxic if inhaled.

Chronic Health Hazards (Including Cancer): EVITO™ 480 SC is not a carcinogen.

Reproductive and Developmental Toxicity: EVITO™ 480 SC is not a reproductive or development toxicant.

SECTION 4: FIRST AID MEASURES

Ingestion: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 water. Call a poison control centre or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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 centre or doctor for treatment advice.

Take container, label or the product name and Pest Control Product Registration Number with you when seeking medical attention.

Toxicological Information: Treat Symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Limits in Air (% by volume):		
	Upper:	NA
	Lower:	NA
Flash Point:		Not flammable
	Method Used:	NA
Autoignition Temperature:		NDA
LEL/UEL:		NDA
NFPA Hazard Classification:		
	Health:	1
	Flammability:	0
	Reactivity:	0
	Other:	None
Extinguishing Media:		Sprayed water jet, foam, extinguishing powder, CO ₂ , sand.
Special Fire Fighting Procedures:		Fight fire in early stages if safe to do so. Wear respiratory protection. In well-ventilated areas, full-face mask with combination filter. In enclosed premises, wear respirator with independent air supply. Contain firefighting water.
Hazardous Combustion Products:		In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, hydrogen fluoride, carbon monoxide, and nitrogen oxide must be anticipated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PHONE NUMBERS

Exposure Calls (PROSAR): 1-866-303-6952 or 1-651-603-3432
(International) Spill Calls (CHEMTREC): 1-800-424-9300 or 1-703-527-3887

Use personal protective equipment. Do not empty into drains or waters. Take up spilled product with absorbent material and place into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

SECTION 7: HANDLING AND STORAGE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire label. Use strictly in accordance with label precautionary statements and directions. Keep pesticide in original container. Store in a cool, dry place. Protect from excessive heat or direct sunlight. Do not contaminate food or foodstuffs. Do not store or transport near feed or food.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear eye protection, goggles.

Skin Protection: Wear long-sleeved shirt, long pants, protective gloves for chemicals, shoes and socks. Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing. Wash hands before breaks and at end of work.

Respiratory/Ventilation Requirements: NDA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous off-white liquid
Odor:	None
Physical State:	Liquid suspension
pH:	6.8 (10% solution)
Boiling Point:	NDA
Melting Point:	NA
Freezing Point:	NDA
Vapor Pressure:	NA
Vapor Density:	NDA
Bulk Density:	1.19 g/cc at 20°C
Specific Gravity:	NDA
Evaporation Rate:	NDA
Solubility in Water:	NA
Percent Solids by Weight:	NDA
Percent Volatile:	NDA
Volatile Organic Compounds:	NDA
Molecular Weight:	NDA
Viscosity:	822 cps @25°C

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and storage conditions
Hazardous Polymerization:	Will not occur
Flash Point:	NDA
Flammable Point:	NDA
Auto Ignition:	NDA
Incompatibility With Other Materials:	Avoid contact with strong alkaline or acidic materials.
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides. Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute:

Oral Toxicity: LD₅₀ (rat): >5000 mg/kg

Dermal Toxicity: LD₅₀ (rat): >5000 mg/kg

Inhalation Toxicity: LC₅₀ (rat): >2170 mg/m³

Eye Irritation: Non-irritant.

Skin Irritation: Slightly irritating.

Skin Sensitization: Skin sensitization (guinea pig) (via the Buehler Test).

Subchronic: n subchronic studies with Fluoxastrobin Technical, the NOEL for rat were 1000 ppm (M) and 2000 ppm (F), for mice was not assigned, and for dog 100 ppm. Reduced body weight gain and food intake, calculi in the urethra and kidney, urinary bladder, and urethra, vacuolation in the zona fasciculata in rats. There were no dose related toxicity effects in mice. Reduced net body weight gain and food efficiency in addition to toxicity findings in the liver in dogs.

Chronic Toxicity: In the dog chronic study with Fluoxastrobin Technical, the NOEL was 50 ppm. Reduced body weight and hepatocytomegaly and cytoplasmic changes associated with increased serum liver alkaline phosphatase indicative of cholestasis.

Carcinogenicity: No evidence of carcinogenicity.

Mutagenicity: Fluoxastrobin Technical is negative in the following genotoxicity assays: *In vitro* bacterial reverse gene mutation, *In vitro* mammalian chromosome aberration in Chinese hamster lung (V79) cells, mammalian cytogenetics-micronucleus assay (mouse).

Developmental Toxicity: In the developmental studies with Fluoxastrobin Technical the NOEL for rats were 1000 mg/kg/day (maternal) and 1000 mg/kg/day (developmental) (limit dose). The NOEL for rabbits were 100 mg/kg/day (maternal) based on cold years, transient body weight loss and decreased food consumption, and 400 mg/kg/day (developmental).

Reproduction: In the reproduction study with Fluoxastrobin Technical in rats were 1000 ppm (parental) based on decreased pre-mating body weight gain and decrease pre-mating absolute body weight; >10000 ppm (reproductive); 1000 ppm (offspring) based on decrease body weights, delayed preputial separation, and incomplete ossification.

Neurotoxicity: No evidence of neurotoxicity.

SECTION 12: ECOLOGICAL INFORMATION

This information is based upon the active ingredient.

Aquatic Organism Toxicity:

Trout (<i>Oncorhynchus mykiss</i>)	96 hr LC ₅₀ = 0.435 mg/L
Carp (<i>Cyprinus carpio</i>)	96 hr LC ₅₀ = 0.57 mg/L
Bluegill sunfish (<i>Lepomis macrochirus</i>)	96 hr LC ₅₀ = 0.97 mg/L
Water flea (<i>D. magna</i>)	48 hr EC ₅₀ = 0.48 mg/L
Mysid (<i>M. bahia</i>)	96 hr LC ₅₀ = 0.053 mg/L

Other Non-Target Organism Toxicity:

Green algae (<i>Selenastrum capricornutum</i>)(biomass):	72-hour EC ₅₀ = 0.45 mg/L
Green algae (<i>Selenastrum capricornutum</i>)(growth rate):	72-hour EC ₅₀ = 2.67 mg/L
Bacteria (activated sludge):	EC ₅₀ > 10000 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

End users must dispose of any unused product as per the label recommendations and in accordance with all applicable laws and regulations. Check governmental regulations and local authorities for approved disposal of this material.

SECTION 14: TRANSPORT INFORMATION

Only regulated when shipped by water or in bulk package. Describe as: UN3082, Environmentally hazardous substances, liquid, n.o.s. (Fluoxastrobin), 9, PG III, Marine Pollutant.

SECTION 15: REGULATORY INFORMATION

Canadian Information:

WHMIS information: This product is a Pest Control Product and is not regulated as a Controlled Product under the Hazardous Products Act (HPA).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

US Federal Information:

EPA/CERCLA Reportable Quantity (RQ): None reported.

SARA TITLE III:

Section 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present.

Section 313, Toxic Chemicals Notification, 40 CFR 372: None of the ingredients are listed at a concentration above the *de minimus* level.

US State Right to Know Laws:

California Proposition 65 Information: To the best of our knowledge, this product is not known to contain any chemicals known to the State of California to cause cancer and/or reproductive harm.

Pest Control Products (PCP) Act Registrations No.: 30408

SECTION 16: OTHER INFORMATION

Reason for issue:	Renewal
Prepared by:	Susan Parker
Issue date:	2/25/2015
Supersedes date:	5/23/2013
MSDS number:	00640

The information in this MSDS is based on data available to us as of the issue date given herein, and believed to be correct. Contact Arysta LifeScience North America LLC at (919) 678-4900 to determine if additional data and information have become available since the issue date.

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