

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/11/2014 Revision date: 06/16/2017 Version: 3.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: EVITO® 480 SC FUNGICIDE
Synonyms	: Fluoxastrobin 480 SC / Disarm® 480 SC
Other means of identification	: EPA Reg. No 66330-64
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Use of the substance/mixture	: Fungicide.
Restrictions on use	: No additional information available
1.3. Details of the supplier of the safety d	lata sheet
Arysta LifeScience North America, LLC	
15401 Weston Parkway, Suite 150	
Cary, NC 27513 - USA	
1.4. Emergency telephone number	
Emergency number	: Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international)
	Spill calls (CHEMTREC) (Contract # CCN179): +1-800-424-9300 or +1-703-527-3887
	(international)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	ixture
GHS-US classification	
Acute Tox. 4 (Inhalation:dust,mist) H332 STOT RE 1 H372	
Aquatic Acute 1 H400	
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	
hazaru pictograms (Chio-06)	
	GHS07 GHS08 GHS09
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H332 - Harmful if inhaled
	H372 - Causes damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life
Precautionary statements (GHS-US)	: P260 - Do not breathe mist, spray, vapours
ricodulionally statements (erro de)	P261 - Avoid breathing mist, spray, vapours
	P264 - Wash hands thoroughly after handling
	P270 - Do not eat, drink or smoke when using this product
	P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	P312 - Call a doctor if you feel unwell
	P314 - Get medical advice/attention if you feel unwell
	P391 - Collect spillage P501 - Dispose of contents/container to Collection point
2.3. Other hazards	

No additional information available

2.4. Unknown acute toxicity (GHS US)

3.1% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

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3.1% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Wixtures			
Name	Product identifier	% (w/w)	GHS-US classification
Fluoxastrobin Technical	(CAS-No.) 361377-29-9	40.3	Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	 Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: No specific fire or explosion hazard.
Reactivity	: No dangerous reactions known.
5.3. Advice for firefighters	
Firefighting instructions	: Do not allow run-off from fire fighting to enter drains or water courses. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
General measures	: Avoid contact with skin and eyes.
6.1.1. For non-emergency personnel	
Protective equipment	: Chemical goggles or safety glasses.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Chemical goggles or safety glasses.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Do not discharge into drains or the environment	ıt.

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6.3.	Methods and material for contain	ment and cleaning up
For cor	itainment	: Absorb and/or contain spill with inert material, then place in suitable container.
Method	ls for cleaning up	: Wipe up with absorbent material (for example cloth). Take up in non-combustible absorbent material and shove into container for disposal.
6.4.	Reference to other sections	

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

: None known.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not breathe mist, spray, vapours. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, include	ling any incompatibilities
Storage conditions	: Do not store near food, foodstuffs, drugs, or potable water supplies. Store in a dry place.

Incompatible products

7.3. Specific end use(s)

Formulations. Fungicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameter	S
EVITO® 480 SC FUNGICID	E
ACGIH	Not applicable
OSHA	Not applicable
Fluoxastrobin Technical (361377-29-9)
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves resistant to chemical penetration. Wear water impervious gloves. nitrile rubber gloves. neoprene/butyl rubber. barrier laminate.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear water impervious or resistant protective clothing and gloves.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. If needed, use an air-purifying respirator with organic vapor cartridges and a dust/mist prefilter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Viscous liquid.
Colour	: Off-white
Odour	: slight
Odour threshold	: No data available
рН	: 6.8 (10% solution)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available

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Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No oxidizing properties
Vapour pressure	: No data available
Relative density	: 1.183 @ 25 °C
Relative vapour density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: 822 cSt cps @ 25 °C
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

No additional mormation available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reactions known.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Hazardous polymerization will not occur.	
10.4. Conditions to avoid	
None known.	
10.5. Incompatible materials	
None known.	
10.6. Hazardous decomposition products	
Carbon monoxide. Nitrogen oxides.	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
	: Skin and eye contact
11.1. Information on toxicological effects	
11.1. Information on toxicological effects Likely routes of exposure	: Skin and eye contact
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity	: Skin and eye contact
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity EVITO® 480 SC FUNGICIDE	: Skin and eye contact : Inhalation:dust,mist: Harmful if inhaled.
Information on toxicological effects Likely routes of exposure Acute toxicity EVITO® 480 SC FUNGICIDE LD50 oral rat	: Skin and eye contact : Inhalation:dust,mist: Harmful if inhaled. > 5000 mg/kg
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Information on toxicological effects Likely routes of exposure Acute toxicity EVITO® 480 SC FUNGICIDE LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE US (vapours) ATE US (dust,mist) Fluoxastrobin Technical (361377-29-9)	 Skin and eye contact Inhalation:dust,mist: Harmful if inhaled. > 5000 mg/kg > 5000 mg/kg 4.9 mg/l/4h 4.9 mg/l/4h 4.9 mg/l/4h
Information on toxicological effects Likely routes of exposure Acute toxicity EVITO® 480 SC FUNGICIDE LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE US (vapours) ATE US (dust,mist)	 Skin and eye contact Inhalation:dust,mist: Harmful if inhaled. > 5000 mg/kg > 5000 mg/kg 4.9 mg/l/4h 4.9 mg/l/4h 4.9 mg/l/4h 5000 mg/kg
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11.1. Information on toxicological effects Likely routes of exposure Acute toxicity EVITO® 480 SC FUNGICIDE LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE US (vapours) ATE US (dust,mist) Fluoxastrobin Technical (361377-29-9) LD50 dermal rat LD50 dermal rat LD50 oral rat LD50 dermal rat LD50 dermal rat LD50 dermal rat LD50 dermal rat	: Skin and eye contact : Inhalation:dust,mist: Harmful if inhaled. > 5000 mg/kg > 5000 mg/kg 4.9 mg/l/4h 4.9 mg/l/4h 4.9 mg/l/4h > 5000 mg/kg > 5000 mg/kg > 5000 mg/kg 4.9 mg/l/4h

(Slightly irritating to skin)

: Not classified

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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Fluoxastrobin Technical (361377-29-9)	
NOAEL (oral, rat, 90 days)	1.5 mg/kg bodyweight/day liver effects
Aspiration hazard	: Not classified

Aspiration hazard	•
Aspiration nazaru	•

Symptoms/effects after inhalation

: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - water	: Very toxic to aquatic life.		
Fluoxastrobin Technical (361377-29-9)			
LC50 fish 1	0.435 mg/l 96 h Oncorhuchus mykiss		
LC50 other aquatic organisms 1	0.053 mg/l 96 h M. bahia		
EC50 Daphnia 1	0.48 mg/l 48 h		
LC50 fish 2	0.57 mg/l 96 h Cyprinus carpio ; 0.97 mg/l 96 h Lepomis macrochirus		

12.2. Persistence and degradability

Fluoxastrobin Technical (361377-29-9)		
Persistence and degradability	Not rapidly degradable.	
12.3. Bioaccumulative potential		
Fluoxastrobin Technical (361377-29-9)		
Bioconcentration factor (BCF REACH)	52.1	
Log Pow	2.86 @ 20 °C	
Bioaccumulative potential	Does not biaccumulate significantly.	

12.4. WODIIIty III SOI	12.4.	Mobility in	soil
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Fluoxastrobin Technical (361377-29-9)	
Ecology - soil	Slightly mobile in soil.

12.5. Other adverse effects

Effect on the global warming

: No known effects from this product.

SECTION 13: Disposal considera	tions	
13.1. Waste treatment methods		
Sewage disposal recommendations	: Do not dispose of waste into sewer.	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Disposal via incineration is recommended.	
SECTION 14: Transport informati	on	
Department of Transportation (DOT)		
n accordance with DOT		
Non-bulk (< 119 gallons) Not regulated Bulk (>= 119 gallons):		
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (fluoxastrobin), 9, III	
JN-No.(DOT)	: UN3082	
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s. (fluoxastrobin)	
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Packing group (DOT)	: III - Minor Danger
lazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Additional information	~
Emergency Response Guide (ERG) Number	: 171
Other information	: No supplementary information available.
Transport by sea	
IMDG	
Transport hazard class(es) (IMDG)	: 9
Marine pollutant	: Yes
UN-No. (IMDG)	: 3082
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluoxastrobin), 9, III, MARINE POLLUTANT
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Air transport IATA	
Transport hazard class(es) (IATA)	: 9
Transport Trazaru Class(es) (IATA)	
Marine pollutant	: Yes
UN-No. (IATA)	: 3082
Transport document description (IATA)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluoxastrobin), 9, III
Class (IATA)	: 9 - Miscellaneous Dangerous Goods

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Fluoxastrobin Technical (361377-29-9)	
EPA TSCA Regulatory Flag	Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

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This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use .:

EPA Registration Number	66330-64
FIFRA Signal Word	CAUTION
FIFRA Hazard Statement	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing.
FIFRA Other	This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. The active ingredient in this product can be persistent for several months or longer. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark, or other sensitive areas that may be exposed to spray drift. Do not contaminate water when disposing of equipment washwater or rinsate.

15.2. International regulations

CANADA

Fluoxastrobin Technical (361377-29-9)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECT	ION 16: Other information	
Revisio	n date	: 06/16/2017
Data so	burces	: European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/.
		Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
		OSHA 29CFR 1910.1200 Hazard Communication Standard.
		TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Other i	nformation	: None.
Full tex	t of H-statements:	
	H332	Harmful if inhaled
	H372	Causes damage to organs through prolonged or repeated exposure

H410	Very toxic to aquatic life with long lasting effects
H400	Very toxic to aquatic life
H372	Causes damage to organs through prolonged or repeated exposure

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	 O - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

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Indication of changes: Composition/information on ingredients. GHS classification.

SDS Prepared by:

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product