

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/11/2014 Version: 1.0

	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name.	: Evito® 480 SC
Synonyms	: Fluoxastrobin 480 SC Disarm® 480 SC
Other means of identification	
	: EPA Reg. No 66330-64
	e substance or mixture and uses advised against
Use of the substance/mixture	: Formulations. Fungicide.
1.3. Details of the supplier of the s	safety data sheet
Arysta LifeScience North America LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 - USA	
1.4. Emergency telephone numbe	r
Emergency number	: Exposure Calls (PROSAR): +1-866-303-6952 or +1-651-603-3432 (international) Spill Calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887
SECTION 2: Hazards identificat	ion
2.1. Classification of the substand	
GHS-US classification	
Acute Tox. 4 (Inhalation:dust,mist) H332	
Skin Sens. 1 H317	
STOT RE 1 H372 Aquatic Acute 1 H400	
Full text of H-phrases: see section 16	
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GHS-US labelling Hazard pictograms (GHS-US)	GHS07 GHS08 GHS09
Signal word (GHS-US)	: Danger.
Hazard statements (GHS-US)	 H317 - May cause an allergic skin reaction 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/vapours/spray P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

- P272 Contaminated work clothing must not be allowed out of the workplace
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 If on skin: Wash with plenty of water P304 + P340 If inhaled: Remove person to fresh air and keep comfortable for breathing
- P314 Get medical advice/attention if you feel unwell
- P321 Specific treatment (see Section 4 on this label)
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P362+P364 Take off contaminated clothing and wash it before reuse
- P391 Collect spillage
 - P501 Dispose of contents/container in accordance with local and national regulations

2.3. **Other hazards**

No additional information available

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2.4. Unknown acute toxicity (GHS-US)

- 3 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral). 3 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal).
- 3 percent 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. **Mixture**

Components with health hazards above the applicable thresholds are shown.

Name	Product identifier	%	GHS-US classification
Fluoxastrobin (main constituent)	(CAS No) 361377-29-9	40.3	Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 1, H372 Aquatic Acute 1, H400
1,2-benzisothiazolone	(CAS No) 2634-33-5	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
2-methyl-2H-isothiazol-3-one	(CAS No) 2682-20-4	(CAS No) 2682-20-4 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of H-phrases: 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.		
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/doctor/physician if you feel unwell.		
4.2. Most important symptoms and effect	ts, both acute and delayed		
Symptoms/injuries : Causes damage to organs through prolonged or repeated exposure.			
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation.;Harmful if inhaled		
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.		
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 substance or mixture			

Fire hazard Reactivity	No specific fire or explosion hazard.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.

SECTIO	SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equip	pment and emergency procedures	
General r	measures	Avoid contact with skin and eyes.	

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6.1.1. For non-emergency person	nel
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 envir	ronment.
6.3. Methods and material for co	ontainment and cleaning up
For containment	: Absorb and/or contain spill with inert material, then place in suitable container.
Methods 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. Sectio	n 7: safe handling. Section 8: personal protective equipment.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	ng
Precautions for safe handling	: Do not breathe mist, vapours, spray.
	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 there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
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.	, including any incompatibilities

T.2. Conditions for sale storage	s, moluting any moompatismics
Storage conditions	: Do not store near food, foodstuffs, drugs, or potable water supplies. Store in a dry place.
Incompatible products	: None known.

7.3. Specific end use(s)

Formulations. Fungicide.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

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.

Evito® 480 SC		
ACGIH	Not applicable	
OSHA	Not applicable	
1,2-benzisothiazolone (2634-	33-5)	
ACGIH	Not applicable	
OSHA	Not applicable	
2-methyl-2H-isothiazol-3-one	(2682-20-4)	
ACGIH	Not applicable	
OSHA	Not applicable	
Fluoxastrobin (361377-29-9)		
ACGIH	Not applicable	
OSHA	Not applicable	
8.2. Exposure controls		
Appropriate engineering controls	: Avoid creating mist or spray. Avoid splashing. Ensure good ventilation of the work station.	
Personal protective equipment	: Avoid all unnecessary exposure.	
Hand protection	: It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. nitrile rubber gloves.	

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Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear water impervious or resistant protective clothing and gloves.
	Applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves made of any waterproof material, such as nitrile, butyl, neoprene and/or barrier laminate. These are only some of the glove materials that are chemically resistant to this product. For more options, refer to category A on an EPA chemical resistance category selection chart.
Respiratory protection	 In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.

SECTION 9: Physical and chemical p	properties	
9.1. Information on basic physical and c	hemical properties	
Physical state	: Liquid	
Appearance	: Viscous liquid.	
Colour	: Off-white	
Odour	: Slight latex paint odor	
Odour threshold	: No data available	
рН	: 6.8 (10% solution)	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.1 g/cc @ 20 °C	
Solubility	 Water: Solubility in water of component(s) of the mixture : Fluoxastrobin: 2.43 mg/l @ 20 °C pH 4; 2.29 mg/l @ 20 °C pH 7; 2.27 mg/l @ 20 °C pH 9 	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: 822 cSt cps @ 25 °C	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No oxidizing properties.	
Explosive limits	: No data available	
0.2 Other information		

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
No dangerous reactions known.		
10.2.	Chemical stability	
Stable u	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 kr	nown.	
10.6.	Hazardous decomposition products	
Carbon	monoxide. Nitrogen oxides.	

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SECTON 111: Toxicological information 114. Information on toxicological information Extrate 489 SC Extrate 489 SC LD30 definition on toxicological information LD30 definition of (mg)h 4 mg h 1.250 minitation at (mg)h 4 mg h 1.250 minitation at (mg)h 4 mg h 1.250 minitation at (mg)h 5 0000 mg/kg 1.250 minitation at (mg)h 5 0000 mg/kg 2.750 minitation at (mg)h 5 0000 mg/kg 1.250 minitation at (mg)h 5 0000 mg/kg LD50 definitation 1 00.000 mg/kg LD50 definitation at (mg/h) 5 2170 mg/m² Selicours interaction at (mg/h) 5 Not classified Responder on this exerctionage interaction at (mall interactionage) Cascinogenicity Not classified Not classified Not classifie	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
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Effect on the global warming : No known ecological damage caused by this product.	-			
	Effect on the global warming	: No known ecological damage caused by this product.		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal consideration	
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 informatio	n
In accordance with DOT	
Not considered a dangerous good for transpor	t regulations
Additional information	5
Other information	: No supplementary information available.
ADR	
Transport document description	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluoxastrobin), 9, III, (E)
Packing group (ADR)	: III
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.)	: 90
Classification code (ADR)	: M6
Danger labels (ADR)	: 9 - Miscellaneous dangerous compounds
Orange plates	90 3082
Tunnel restriction code (ADR)	: E
LQ	: 5L
Excepted quantities (ADR)	: E1
Transport by soa	
Transport by sea UN-No. (IMDG)	: 3082
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluoxastrobin)
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Marine Pollutant	: Yes
Air transport	

UN-No.(IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)

: III - Minor Danger

: 3082

: 9 - Miscellaneous Dangerous Goods

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluoxastrobin)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Marine Pollutant

: Yes



SECTION 15: Regulatory information		
15.1. US Federal regulations		
1,2-benzisothiazolone (2634-33-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
2-methyl-2H-isothiazol-3-one (2682-20-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Fluoxastrobin (361377-29-9)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations

CANADA

Evito® 480 SC

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

1,2-benzisothiazolone (2634-33-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Fluoxastrobin (361377-29-9)

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

EU-Regulations

1,2-benzisothiazolone (2634-33-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Fluoxastrobin (361377-29-9)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Inhalation:dust,mist)H332Skin Sens. 1H317STOT RE 1H372Aquatic Acute 1H400Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R20 R43 N; R50 Full text of R-phrases: see section 16

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

15.4. US EPA – FIFRA Regulations

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.

Signal word (FIFRA)	: CAUTION.
Hazard statements (FIFRA)	: Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid contact with skin, eyes or clothing.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Environmental hazards	: 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.
Physical or Chemical hazards	: None
SECTION 16: Other information	
Indication of changes	: Original Document.
Data sources	: 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.
Abbreviations and acronyms	: ACGIH (American Conference of Governement 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 Weight Average.
Other information	: None.

Full text of H-phrases::

a or reprirases		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Corr. 1B	skin corrosion/irritation Category 1B	
Skin Irrit. 2	skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitisation Category 1	
Skin Sens. 1B	Skin sensitisation Category 1B	
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H311	Toxic in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.	

SDS US (GHS HazCom 2012)

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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.