

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
 Product name : SYLLIT® FL FUNGICIDE  
 Other means of identification : EPA Reg. No. 55260-6

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Fungicide  
 Restrictions on use : No additional information available

### 1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America, LLC  
 15401 Weston Parkway, Suite 150  
 Cary, NC 27513 - USA  
 T 1-866-761-9397

### 1.4. Emergency telephone number

Emergency number : Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international)  
 Spill calls (CHEMTREC) (Contract # CCN1779): 1-800-424-9300 or +1-703-527-3887 (international)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS classification

Acute Tox. 3 (Inhalation:dust,mist) H331  
 Skin Irrit. 2 H315  
 Eye Dam. 1 H318  
 Aquatic Acute 1 H400  
 Aquatic Chronic 1 H410

Full text of H statements : see section 16

### 2.2. Label elements

#### GHS labelling

Hazard pictograms (GHS) :



GHS05

GHS06

GHS09

Signal word (GHS) :

Danger

Hazard statements (GHS) :

H315 - Causes skin irritation.  
 H318 - Causes serious eye damage.  
 H331 - Toxic if inhaled.  
 H400 - Very toxic to aquatic life.  
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS) :

P261 - Avoid breathing mist, spray, vapours.  
 P264 - Wash hands thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P280 - Wear eye protection, protective clothing, protective gloves.  
 P302+P352 - If on skin: Wash with plenty of water  
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a doctor  
 P311 - Call a poison center/doctor/...  
 P321 - Specific treatment (see First aid measures on this label)  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS\_US)

Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
Dodine	(CAS-No.) 2439-10-3	39.6	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethoxylated oleyl amine, dodecylbenzenesulfonic salt	(CAS-No.) 66467-20-7	1 - 3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Artificial respiration and/or oxygen if necessary. Call a POISON CENTER/doctor.  
First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
First-aid measures after ingestion : Rinse mouth. Call a physician immediately. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation. Sore throat. Chest pain. Harmful if inhaled.  
Symptoms/effects after skin contact : moderate skin irritation. Repeated exposure may cause skin dryness or cracking.  
Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include pain, blinking, tears and redness.  
Symptoms/effects after ingestion : May be harmful if swallowed. Abdominal cramps. Nausea.

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

Treat symptomatically. Probable mucosal damage may contraindicate the usage of gastric lavage.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Foam. Water spray.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes.  
Explosion hazard : Product is not explosive.  
Reactivity : No dangerous reactions known.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.  
Protection during firefighting : Wear fire/flamm resistant/retardant clothing. Wear a self contained breathing apparatus.

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Do not breathe aerosol.

##### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Ventilate area. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Notify authorities if liquid enters sewers or public waters. Prevent entry to sewers and public waters. Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Clean contaminated surfaces with an excess of water.

#### 6.4. Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing mist, spray, vapours. Do not get in eyes, on skin, or on clothing.

Hygiene measures : 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. Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in correctly labelled containers.

Incompatible products : Alkali. Strong acids.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

SYLLIT® FL FUNGICIDE	
ACGIH	Not applicable
OSHA	Not applicable
Dodine (2439-10-3)	
ACGIH	Not applicable
OSHA	Not applicable
Ethoxylated oleyl amine, dodecylbenzenesulfonic salt (66467-20-7)	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid splashing. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Use only in well ventilated areas.

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Wear water impervious gloves. ( $\geq$  14 mils). Butyl rubber gloves. Nitrile rubber gloves. neoprene gloves. PVC. Viton

#### Eye protection:

Chemical goggles or safety glasses. face shield

#### Skin and body protection:

Long sleeved protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white
Odour	: Negligible.
Odour threshold	: No data available
pH	: 5.8
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
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.01
Solubility	: No data available
Log Pow	: 0.96 @ 20 °C
Auto-ignition temperature	: 430 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

No additional information 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

Heat. Open flame. Sparks.

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

### 10.5. Incompatible materials

Alkali. Strong acids.

### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion. Skin and eye contact.  
Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Toxic if inhaled.

SYLLIT® FL FUNGICIDE	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000
LC50 inhalation rat (mg/l)	0.65 mg/l/4h
ATE (vapours)	0.65 mg/l/4h
ATE (dust,mist)	0.65 mg/l/4h

Dodine (2439-10-3)	
LD50 oral rat	660 mg/kg
LD50 dermal rat	> 5000 mg/kg
LD50 dermal rabbit	2100 mg/kg
LC50 inhalation rat (mg/l)	0.45 mg/l/4h
ATE (oral)	660 mg/kg bodyweight
ATE (dermal)	2100 mg/kg bodyweight
ATE (vapours)	0.45 mg/l/4h
ATE (dust,mist)	0.45 mg/l/4h

Ethoxylated oleyl amine, dodecylbenzenesulfonic salt (66467-20-7)	
LD50 oral rat	505.05 mg/kg
ATE (oral)	505.05 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.  
moderate skin irritation  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Viscosity, kinematic : No data available  
Symptoms/effects after inhalation : May cause respiratory irritation. Sore throat. Chest pain. Harmful if inhaled.  
Symptoms/effects after skin contact : moderate skin irritation. Repeated exposure may cause skin dryness or cracking.  
Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include pain, blinking, tears and redness.  
Symptoms/effects after ingestion : May be harmful if swallowed. Abdominal cramps. Nausea.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

Dodine (2439-10-3)	
LC50 fish 1	1.5 mg/l 96 h

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

<b>Dodine (2439-10-3)</b>	
EC50 crustacea	0.146 mg/l 48 h

### 12.2. Persistence and degradability

<b>SYLLIT® FL FUNGICIDE</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

<b>SYLLIT® FL FUNGICIDE</b>	
Log Pow	0.96 @ 20 °C
Bioaccumulative potential	Not established.

<b>Dodine (2439-10-3)</b>	
Log Pow	0.96 @ 20 °C / pH 7

### 12.4. Mobility in soil

<b>SYLLIT® FL FUNGICIDE</b>	
Ecology - soil	No additional information available.

### 12.5. Other adverse effects

Other information : No additional information available.

## SECTION 13: Disposal considerations

### 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.  
Additional information : Do not allow into drains or water courses.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2902 PESTICIDE, LIQUID, TOXIC, N.O.S. (dodine), 6.1, III  
UN-No.(DOT) : UN2902  
Proper Shipping Name (DOT) : PESTICIDE, LIQUID, TOXIC, N.O.S.  
dodine  
Transport hazard class(es) (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132  
Packing group (DOT) : III - Minor Danger  
Hazard labels (DOT) : 6.1 - Poison



Dangerous for the environment : Yes  
Marine pollutant : Yes



Other information : No supplementary information available.

### Transport by sea

#### IMDG

Transport hazard class(es) (IMDG) : 6.1

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

	:	
Marine pollutant	:	Yes
UN-No. (IMDG)	:	2902
Transport document description (IMDG)	:	UN 2902 PESTICIDE, LIQUID, TOXIC, N.O.S. (Dodine), 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	III - substances presenting low danger
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-A

### Air transport

#### IATA

Transport hazard class(es) (IATA)	:	6.1
	:	
Marine pollutant	:	Yes
UN-No. (IATA)	:	2902
Transport document description (IATA)	:	UN 2902 PESTICIDE, LIQUID, TOXIC, N.O.S. (Dodine), 6.1, III, ENVIRONMENTALLY HAZARDOUS
Class (IATA)	:	6.1 - Toxic Substances
Packing group (IATA)	:	III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

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

Ethoxylated oleyl amine, dodecylbenzenesulfonic salt	CAS-No. 66467-20-7	1 - 3%
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Dodine	CAS-No. 2439-10-3	39.6%
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#### FIFRA Labelling

EPA Registration Number	55260-6
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..	
FIFRA Signal Word	<b>Danger</b>
FIFRA Human Health Hazards	Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled.
FIFRA First Aid	Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist or vapor.
FIFRA Environmental Hazards	This pesticide is toxic to fish and aquatic invertebrates. 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 washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff and has the potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

### 15.2. International regulations

#### CANADA

##### Dodine (2439-10-3)

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

##### Ethoxylated oleyl amine, dodecylbenzenesulfonic salt (66467-20-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### 15.3. US State regulations

**WARNING:** This product can expose you to 1,4-dioxane, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
1,4-dioxane(123-91-1)	X				30 µg/day	

Component	State or local regulations
Dodine(2439-10-3)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Revision date : 09/30/2019

Data sources : ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard.

Other information : None.

#### Full text of H-statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

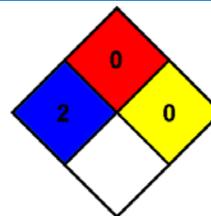
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

# SYLLIT® FL FUNGICIDE

## Safety Data Sheet

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

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire 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.



### Indication of changes:

Composition/information on ingredients. Toxicological information. Classification. Transport information. California Proposition 65. Regulatory information.

**SDS Prepared by:** The Redstone Group  
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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.*