

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE  
Other means of identification : EPA Reg. No. 55260-9

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

Recommended use : Fungicide

### 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

Arysta LifeScience Benelux  
RUE DE RENORY, 26/1  
BE-4102 OUGRÉE  
BELGIUM

### 1.4. Emergency telephone number

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 (international)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Skin Sens. 1 H317  
Full text of H statements : see section 16

### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction  
Precautionary statements (GHS-US) : P261 - Avoid breathing vapours  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective gloves, eye protection  
P302+P352 - If on skin: Wash with plenty of soap, water  
P321 - Specific treatment (see First aid measures on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/container to National regulations

### 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. Substance

Not applicable

# PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE

## Safety Data Sheet

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

### 3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
Propamocarb hydrochloride	(CAS No) 25606-41-1	64 - 68	Skin Sens. 1, H317

\*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. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Wash skin with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.

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

Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
--------------------------------------	--

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Foam. Dry powder. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Not flammable.
Reactivity	: When exposed to heat, may decompose liberating hazardous gases.

### 5.3. Advice for firefighters

Firefighting instructions	: Eliminate all ignition sources if safe to do so. Evacuate area. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Use chemically protective clothing.

## SECTION 6: Accidental release measures

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

General measures	: Avoid all eye and skin contact and do not breathe vapour and mist. Evacuate area.
------------------	---

#### 6.1.1. For non-emergency personnel

Protective equipment	: Refer to section 8.2.
----------------------	-------------------------

#### 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

Do not discharge into drains or the environment. Notify authorities if product enters sewers or public waters.

### 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	: Impound and recover large spill by mixing it with inert granular solids. Collect spillage. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
Other information	: Spilled material may present a slipping hazard.

### 6.4. Reference to other sections

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

# PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE

## Safety Data Sheet

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Hygiene measures : Do not eat, drink or smoke when using this product. Remove contaminated clothes. Wash contaminated clothing before reuse. 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

- Technical measures : Ground well. Use explosion-proof Machinery, mechanical appliances, electrical/electronic articles equipment.
- Storage conditions : Protect from sunlight. Keep container tightly closed. Keep only in the original container. Store locked up.
- Incompatible products : Strong acids. Strong bases. Strong oxidizers.
- Maximum storage period : 2 year
- Storage temperature : > -10 °C
- Heat and ignition sources : Keep away from heat, sparks and flame.
- 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

PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE	
ACGIH	Not applicable
OSHA	Not applicable
Propamocarb hydrochloride (25606-41-1)	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Exposure controls

- Appropriate engineering controls : Avoid splashing. Use only in well ventilated areas. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves.
- Eye protection : Chemical goggles or safety glasses. Face shield.
- Skin and body protection : Skin protection appropriate to the conditions of use should be provided.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.
- Environmental exposure controls : Prevent leakage or spillage. Prevent contaminated water run-off.
- Other information : Do not eat, drink or smoke when using this product.

### SECTION 9: Physical and chemical properties

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

- Physical state : Liquid
- Colour : Colourless light yellow
- Odour : Fruity
- Odour threshold : No data available
- pH : 5.33 (1%, 25 °C)
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Relative evaporation rate (butyl acetate=1) : No data available

# PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE

## Safety Data Sheet

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

Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1.08 g/ml @ 20 °C
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Not classified

PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.01 mg/l/4h

Propamocarb hydrochloride (25606-41-1)	
LD50 oral rat	> 2 g/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

# PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE

## Safety Data Sheet

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

Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.

### SECTION 12: Ecological information

#### 12.1. Toxicity

PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE	
LC50 fish 1	> 140 mg/l 96 h Oncorhynchus mykiss
EC50 Daphnia 1	> 140 mg/l 48 h
ErC50 (algae)	182 mg/l 72 h Selenastrum capricornutum
ErC50 (other aquatic plants)	5940 mg/l Lemna Gibba

Propamocarb hydrochloride (25606-41-1)	
LC50 fish 1	> 100 mg/kg 96 h
EC50 Daphnia 1	> 100 mg/l 48 h
LC50 fish 2	99 mg/l oncorhynchus mykiss
ErC50 (algae)	176 mg/l 72 h
ErC50 (other aquatic plants)	> 85 mg/l 72h Pseudokirchneriella sibcapitata

#### 12.2. Persistence and degradability

PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE	
Surface tension	70.2 mN/m @ 20 °C

#### 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 contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). Notify authorities if product enters sewers or public waters.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated

#### Additional information

Other information : No supplementary information available.

#### Transport by sea

##### IMDG

Transport hazard class(es) (IMDG)	: Not applicable
Marine pollutant	: No

#### Air transport

##### IATA

Transport hazard class(es) (IATA)	: Not applicable
Marine pollutant	: No

# PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE

## Safety Data Sheet

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

### 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

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Propamocarb hydrochloride (25606-41-1)

EPA TSCA Regulatory Flag

Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide

#### 15.2. International regulations

##### CANADA

#### Propamocarb hydrochloride (25606-41-1)

Listed on the Canadian DSL (Domestic Substances List) inventory

##### EU-Regulations

#### Propamocarb hydrochloride (25606-41-1)

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

##### National regulations

No additional information available

#### 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

### SECTION 16: Other information

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>.  
Kriester 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:

H317

May cause an allergic skin reaction

Abbreviations and acronyms:

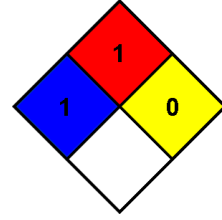
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational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

# PROPLANT™ TURF AND ORNAMENTAL FUNGICIDE

## 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 : 1 - Must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



**SDS Prepared by:** The Redstone Group, LLC.  
6077 Frantz Rd  
Suite 206  
Dublin, Ohio, USA 43016  
614.923.7472  
[www.redstonegrp.com](http://www.redstonegrp.com)

*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*