

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : PROMESS®
 Other means of identification : EPA Reg. No. 55260-10

1.2. Relevant identified uses of the substance 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 data sheet

Arysta LifeScience North America, LLC	Arysta LifeScience Benelux
15401 Weston Parkway, Suite 150	Rue de Renory, 26/1
Cary, NC 27513 - USA	BE-4102 Ougree
T 1-866-761-9397	Belgium

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-US classification

Skin Sens. 1 H317
 Full text of hazard classes and 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 mist, spray, vapours.
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves, protective clothing.
 P302+P352 - If on skin: Wash with plenty of 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 Collection point

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

1.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
 1.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	% (w/w)	GHS-US classification
Propamocarb hydrochloride	(CAS-No.) 25606-41-1	66.8	Skin Sens. 1, H317
3-Dimethylaminopropylamine (Impurity)	(CAS-No.) 52198-63-7	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

*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. Get immediate medical advice/attention.
- First-aid measures after skin contact : Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.
- 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/effects after inhalation : May cause respiratory irritation. May cause irritation of the mucous membranes. May be harmful if inhaled.
- Symptoms/effects after skin contact : May cause an allergic skin reaction. May be harmful in contact with skin. May cause slight irritation.
- Symptoms/effects after eye contact : May cause slight irritation.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause irritation of the mucous membranes.

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. Dry chemical. Foam. Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No particular fire or explosion hazard.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flammable resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin, eyes and clothing.

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

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid breathing mist, spray, vapours. Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area.
- Hygiene measures : 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.
- Storage temperature : > -10 °C
- 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

PROMESS®	
ACGIH	Not applicable
OSHA	Not applicable
Propamocarb hydrochloride (25606-41-1)	
ACGIH	Not applicable
OSHA	Not applicable
3-Dimethylaminopropylamine (52198-63-7)	
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.
- Environmental exposure controls : Prevent leakage or spillage.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Polyethylene. PVC

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

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
- Odour : Fruity

Odour threshold	: No data available
pH	: 4 - 6
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
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	: 1.083
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: 400 °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. Sparks. Open flame.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure	: Inhalation. Skin and eye contact.
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Unknown acute toxicity (GHS US)	1.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 1.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
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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.

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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. May cause irritation of the mucous membranes. May be harmful if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. May be harmful in contact with skin. May cause slight irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause irritation of the mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

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

PROMESS®	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

PROMESS®	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

PROMESS®	
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.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

Transport by sea

IMDG

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

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Air transport

IATA

Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : No

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

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.
3-Dimethylaminopropylamine (52198-63-7)	
EPA TSCA Regulatory Flag	Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.
FIFRA Labelling	
EPA Registration Number	55260-10
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	Caution
FIFRA Human Health Hazards	Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through the skin. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.
FIFRA First Aid	Avoid contact with eyes. Avoid contact with skin or clothing.
FIFRA Environmental Hazards	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 washwaters or rinsate. Do not apply when weather conditions favor drift from the treated areas.

15.2. International regulations

CANADA

Propamocarb hydrochloride (25606-41-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
3-Dimethylaminopropylamine (52198-63-7)	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	

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

Revision date	: 05/15/2019
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.

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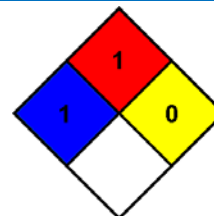
Full text of H-statements:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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

- NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



Indication of changes:

Composition/information on ingredients.

SDS Prepared by: The Redstone Group
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Dublin, Ohio, USA 43017
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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.