

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Trade name : PROPLANT
 Product code : CA701337
 Synonyms : Propamocarb hydrochloride 722 g/L SL

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

1.2.1. Relevant identified uses

Main use category : Industrial use
 Industrial/Professional use spec. : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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 Rue de Renory, 26/1
 B-4102 Ougrée - Belgium
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info@agriphar.com - <http://www.agriphar.com>

1.4. Emergency telephone number

Emergency number : +32 (0)4 385 97 11 (8h - 16h35)

Country	Official advisory body	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120Brussels	+32 70 245 245
Worldwide	WHO	http://www.who.int/ipcs/poisons/centre/directory/en/	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Xi; R43

Full text of R-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard symbols :



Xi - Irritant

R-phrases : R43 - May cause sensitisation by skin contact.
 S-phrases : S2 - Keep out of the reach of children.
 S13 - Keep away from food, drink and animal feedingstuffs.
 S20/21 - When using do not eat, drink or smoke.
 S24 - Avoid contact with skin.
 S37 - Wear suitable gloves.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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according to Regulation (EC) No. 453/2010

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Propamocarb HCl	(CAS No.)25606-41-1 (EC no)247-125-9	64 - 68	Xi; R43
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propamocarb HCl	(CAS No.)25606-41-1 (EC no)247-125-9	64 - 68	Skin Sens. 1, H317

Full text of R-, H- and EUH-phrases: 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	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

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

No additional information available

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	: Foam. Dry extinguishing powder. Carbon dioxide (CO ₂). Water fog.
Unsuitable extinguishing media	: High power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non-flammable.
Reactivity	: When exposed to heat, may decompose liberating hazardous gases.

5.3. Advice for firefighters

Precautionary measures fire	: No naked lights. No smoking.
Firefighting instructions	: Evacuate and limit access. Use water spray/stream to protect personnel and to cool endangered containers.
Protection during firefighting	: Wear chemical resistant suit. If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.
Other information	: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: When leaks or spills occur, only properly protected personnel should remain in the area.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures	: Evacuate area. Eliminate ignition sources. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert.

6.1.2. For emergency responders

Protective equipment	: Wear a self-contained breathing apparatus and chemical resistant suit.
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6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

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according to Regulation (EC) No. 453/2010

6.3. Methods and material for containment and cleaning up

- For containment : Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.
- Methods for cleaning up : Collect spills and put it into appropriated container.
- Other information : High slip hazard because of leaking or spilled product.

6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

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/sparks/open flames/hot surfaces. - No smoking. Do not empty into drains or the aquatic environment.
- Handling temperature : at room temperature
- Hygiene measures : Do no eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground well. Use explosion-protected machinery, apparatus, suction equipment, appliances etc.
- Storage conditions : Protect from direct sunlight.
- Incompatible products : Strong acid. Strong bases. Oxidizing agents, strong.
- Maximum storage period : 3 year(s)
- Storage area : Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.
- Packaging materials : Keep only in the original container. Keep locked up.

7.3. Specific end use(s)

No additional information available

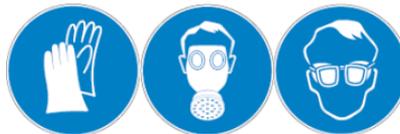
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Personal protective equipment : Gloves. Gas mask. Safety glasses.



- Hand protection : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
- Eye protection : Face protection shield. Chemical goggles or safety glasses.
- Skin and body protection : Skin protection appropriate to the conditions of use should be provided.
- Respiratory protection : If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.
- Environmental exposure controls : Notify authorities if product enters sewers or public waters.
- Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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according to Regulation (EC) No. 453/2010

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
Solidification point	: No data available
Boiling point	: No data available
Flash point	: No flash point - measurement carried out until boiling temperature. °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,08 g/ml (20°C)
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Self ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not oxidizing.

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

None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Protect from direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

PROPLANT	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5,01 mg/l/4h

Propamocarb HCl (25606-41-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

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according to Regulation (EC) No. 453/2010

Propamocarb HCl (25606-41-1)	
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Irritation	: Not classified pH: 5,33 (1%, 25°C)
Corrosivity	: Not classified pH: 5,33 (1%, 25°C)
Sensitisation	: May cause sensitisation by skin contact.
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Reproductive toxicity	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

PROPLANT	
LC50 fishes 1	> 100 mg/l (96h Oncorhynchus mykiss)
EC50 Daphnia 1	> 100 mg/l (48h Daphnia magna)
ErC50 (algae)	182 mg/l (72h Selenastrum capricornutum)

Propamocarb HCl (25606-41-1)	
LC50 fishes 1	> 99 mg/l (96h Oncorhynchus mykiss)
EC50 Daphnia 1	> 100 mg/l (48h Daphnia magna)
LC50 fishes 2	> 92 (96h Lepomis macrochirus)
NOEC (chronic)	> 6,3 mg/l (32d Lepomis macrochirus)
ErC50 (algae)	> 85 mg/l (72h Pseudokirchneriella subcapitata)
ErC50 (other aquatic plants)	> 18 mg/l (14d Lemna Gibba)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Propamocarb HCl (25606-41-1)	
BCF fishes 1	3,2 - 4,7 mg/g
Log Pow	-1,36
Bioaccumulative potential	There is no bioaccumulation.

12.4. Mobility in soil

PROPLANT	
Surface tension	70,2 mN/m (20°C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of this material and its container to hazardous or special waste collection point.
Additional information	: Do not allow agent or/and its container to leak into waters. (Do not clean release apparatus in the direct vicinity of surface waters/Avoid indirect entry into farmyard gullies or road gullies). Notify authorities if product enters sewers or public waters.

SECTION 14: Transport information

No dangerous good in sense of transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

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according to Regulation (EC) No. 453/2010

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes : S-phrases.

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

Skin Sens. 1

H317

Full text of R-, H- and EUH-phrases:

Skin Sens. 1	Skin sensitisation Category 1
H317	May cause an allergic skin reaction
R43	May cause sensitisation by skin contact.

SDS EU (REACH Annex II)

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.