

PROPISDERM

Code: 07080

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.1.0

Revision: 15/07/19

Print Date : 02/11/19

Flammable Liquide -
Category 3

H226: Flammable liquid and vapour.

Hazardous to the aquatic
environment – Chronic -
Category 2

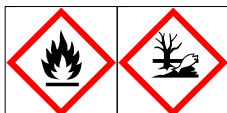
H411: Toxic to aquatic life with long lasting effects.

EUH 208: Contains Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium). May produce an allergic reaction.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Warning

Contains : Isopropyl alcohol+ Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium)

Hazard statement(s) :

H226: Flammable liquid and vapour. H411: Toxic to aquatic life with long lasting effects. EUH 208: Contains Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium). May produce an allergic reaction.

Precautionary statement(s) :

P102: Keep out of reach of children. P273: Avoid release to the environment. P391: Collect spillage. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No additional information available.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

Chemical nature of the mixture : NEUTRAL pH LIQUID

Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
1% <= Isopropyl alcohol < 5%	67-63-0	200-661-7	01-2119457558-25	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	(1) (2)
1% <= Glycerol < 5%	56-81-5	200-289-5	01-2119471987-18	Not classified	(2)
0.25% <= Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) < 1%	27083-27-8		Biocidal active substance, regarded as already registered	Acute Tox. 4 (oral) H302 Acute Tox. 2 (inhalation) H330 Eye Dam. 1 H318 Skin Sens. 1B H317 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Carc. 2 H351 M Factor (Acute) 10 M Factor (Chronic) 10	(1)
0.01% <= Chlorhexidine gluconate < 0.1%	18472-51-0	242-354-0		Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 10 M Factor (Chronic) 1	(1)

Type

- (1) : Substance classified as hazardous for health and/or the environment
- (2) : Substance with an exposure limit at the work station.
- Substance of very high concern candidate for the authorisation procedure:
- (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
- (4) : Substance considered as vPvB (very persistent, very bioaccumulable)
- (5) : Substance considered as carcinogenic category 1A
- (6) : Substance considered as carcinogenic category 1B
- (7) : Substance considered as mutagenic category 1A
- (8) : Substance considered as mutagenic category 1B
- (9) : Substance considered as reprotoxic category 1A
- (10) : Substance considered as reprotoxic category 1B
- (11) : Substance considered as endocrine disrupter

Full text of H- and EUH- phrases : see section 16.

SECTION 4: First aid measures

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4.1. Description of first aid measures

General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

In the event of inhalation :

Bring to fresh air.

In the event of contact with the skin :

Wash with water.

In the event of contact with the eyes :

Wash with water.

In the event of ingestion :

Rinse mouth.
Do NOT induce vomiting.
Get medical advice.

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

Skin contact : non irritating

PROPISDERM contains polyhexamethylene biguanide (monomer: 1,5-bis(trimethylen)-guanylguanidinium monohydro chloride). May produce an allergic reaction.

Eye contact : non irritating

Ingestion : May cause digestive troubles.

Inhalation : Not considered as hazardous through inhalation under normal conditions of use.

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

Treatments : Symptomatic treatment

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :

Agents compatible with other products involved into fire.

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Unsuitable extinguishing media :
None from our knowledge.

5.2. Special hazards arising from the substance or mixture

PROPISDERM is flammable.

5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel :

No smoking.
Evacuate non-essential staff and those not equipped with individual protection apparatus.

6.1.2. For emergency responders :

Evacuate the personnel to a safe location.
Keep people upwind and away from the location of the flow/leak.
Use personal protection equipment.

6.2. Environmental precautions

Do not discharge the product directly to sewer or to environment.

6.3. Methods and material for containment and cleaning up

Small spillage :
Pump in a reservoir of help.

Large spillage :
Mark out, soak up with an inert absorbant and pump in an emergency tank.
Never return spills in original containers for re-use.
Keep in suitable, properly labelled and closed containers for disposal.

6.4. Reference to other sections

Respect protective measures presented at heading 8.
Refer to section 13 for the elimination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Do not eat, drink or smoke in work area. Avoid projections during use.
Operate in a well ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Do not store below the point of freezing.
Keep only in the original container.
Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.
Keep container closed.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

PROPISDERM is for use as a biocide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

Substance	Country	Type	Value	Unit	Comments	source
Isopropyl alcohol	GBR	OEL 8h	400	ppm		International limit values for chemical agents
			999	mg/m ³		International limit values for chemical agents
		OEL Short term	500	ppm		International limit values for chemical agents
			1250	mg/m ³		International limit values for chemical agents
Glycerol	GBR	OEL 8h	10	mg/m ³		International limit values for chemical agents

8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions

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implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

No special protection measure is required.

Hand protection :

For operators having allergic reaction, wearing chemical resistant protective gloves is recommended.

Examples of preferred materials for insulating gloves:

Nitril.

Skin protection :

No special protection measure is required.

Respiratory protection :

No special protection measure is required.

Thermal hazards :

Not applicable

Health measures :

After using, wash systematically all personal protective equipment.

8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance	Clear liquid
Colour	Blue
Odour	Characteristic
Odour threshold	Not available
Pure pH	7±0.4
pH value at 10g/l	Not available
Freezing point :	-1 °C
Boiling point	95 °C
Flash point (EC : A9)	52 °C
Evaporation rate:	Not available
Flammability	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Mass density	1±0.01 g/cm ³
Relative density	1±0.01
Solubility in water	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information

No additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions of use.

10.2. Chemical stability

Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Storage below the freezing point.

Heat.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

None to our knowledge in standard conditions of use.

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These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance-related data:

Acute toxicity

Isopropyl alcohol : LD 50 - oral rat > 2,000 mg/kg. - MSDS supplier

Isopropyl alcohol : LD 50 - dermal rabbit > 2,000 mg/kg. - MSDS supplier

Isopropyl alcohol (100%) : LC 50 - inhalation - 4h rat 30 mg/L. - MSDS supplier

Chlorhexidine gluconate (18,87%) : LD 50 - oral rat > 2,000 mg/kg. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : LD 50 - oral rat > 2,000 mg/kg. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : LC 50 - inhalation rat 0.29 mg/L. - aerosol - MSDS supplier

Isopropyl alcohol (99,5%) : LD 50 - oral rat 5,840 mg/kg. - MSDS supplier

Isopropyl alcohol (99,5%) : LD 50 - dermal rabbit > 2,000 mg/kg. - MSDS supplier

Isopropyl alcohol (99,5%) : LC 50 - inhalation - 4hours rat 72.6 mg/l/4h. - MSDS supplier

Isopropyl alcohol (99,5%) : ATE (orally) 5,840.000 mg/kg. - MSDS supplier

Isopropyl alcohol (99,5%) : ATE (par inhalation) - 4hours 72.600 mg/l/4h. - MSDS supplier

Skin corrosion/irritation

Isopropyl alcohol : Skin irritation rabbit . non irritating - MSDS supplier

Serious damage to eyes/eye irritation

Isopropyl alcohol : Eye irritation rabbit . Irritating - MSDS supplier

Chlorhexidine gluconate (18,87 %) : Eye contact : . Risk of serious damage of eyes - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : Eye irritation . Irritating to eyes. - MSDS supplier

Isopropyl alcohol (99,5%) : Serious damage to eyes/eye irritation . Causes serious eye irritation. - MSDS supplier

Sensitisation

Isopropyl alcohol : Sensitisation guinea-pig (Buehler assay): . Not sensitising - MSDS supplier

Respiratory / skin sensitisation

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) (20%) : Skin sensitisation . Can induce sensitization - MSDS supplier

Mutagenicity

Isopropyl alcohol : Ames test . Not mutagenic - MSDS supplier

Carcinogenicity

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : . Suspected of causing cancer. - MSDS supplier

Isopropyl alcohol (99,5%) : laboratory animals . No cancer observed in laboratory animals - MSDS supplier

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Specific target organ toxicity - single exposure

Isopropyl alcohol (99,5%) : . May cause drowsiness or dizziness. - MSDS supplier

Specific target organ toxicity - repeated exposure

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) (20%) :
Inhalation : . Causes damage to respiratory tract through prolonged or repeated exposure(STOT-RE Cat. 1) - MSDS supplier

Chronic toxicity

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium) : NOEC algae 0.008 mg/L. - MSDS supplier

Mix-related data :

Acute toxicity

LD 50 - oral rat (Sprague-Dawley) (OECD 423): > 2,000 mg/kg.

Skin corrosion/irritation

Skin irritation (OECD 439): . non irritating

Serious damage to eyes/eye irritation

Eye irritation (OECD 405): . non irritating

Respiratory / skin sensitisation

Skin sensitisation . The mixture is not considered as a skin sensitiser according to 1272/2008/EC Regulation.

Respiratory sensitisation . The mixture is not considered as a respiratory sensitiser according to 1272/2008/EC Regulation.

Mutagenicity

. The classification criteria are not met given the available data.

Carcinogenicity

. The classification criteria are not met given the available data.

Reproductive toxicity

. The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure

. The classification criteria are not met given the available data.

Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

Aspiration hazard

. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

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Skin contact : non irritating

PROPISDERM contains polyhexamethylene biguanide (monomer: 1,5-bis(triméthyle)-guanylguanidinium monohydro chloride). May produce an allergic reaction.

Eye contact : non irritating

Ingestion : May cause digestive troubles.

Inhalation : Not considered as hazardous through inhalation under normal conditions of use.

SECTION 12: Ecological information

12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

Substance-related data:

Acute toxicity

Isopropyl alcohol (100 %) : LC 50 - 48 h fishes (Leuciscus idus melanotus) > 100 mg/L. - MSDS supplier

Isopropyl alcohol : EC 50 - 48 h daphnia (Daphnia magna) > 100 mg/L. - MSDS supplier

Isopropyl alcohol : EC 50 - 72 h algae (Scenedesmus subspicatus) > 100 mg/L. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : LC 50 - 96h fishes (Oncorhynchus mykiss) 0.026 mg/L. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : EC 50 - 48h daphnia (Daphnia magna) (OECD 202): 0.09 mg/L. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : EC 50 - 72H algae (Pseudokirschnerella subcaptata) (OECD 201): 0.019,1 mg/L. - MSDS supplier

Chlorhexidine gluconate : LC 50 fishes 2.08 mg/L. - MSDS supplier

Chlorhexidine gluconate : EC 50 daphnia (Daphnia magna) 0.087 mg/L. - MSDS supplier

Chlorhexidine gluconate : EC 50 algae 0.081 mg/L. - MSDS supplier

Isopropyl alcohol (99,5%) : LC 50 - 96hours fishes (Pimephales promelas) > 100 mg/L. - MSDS supplier

Isopropyl alcohol (99,5%) : EC 50 - 48hours daphnia (Daphnia magna) > 100 mg/L. - MSDS supplier

Chronic toxicity

Chlorhexidine gluconate : NOEC daphnia 0.02 mg/L. - MSDS supplier

Degradability

Isopropyl alcohol : 10days > 70 %. Easily biodegradable. - MSDS supplier

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : . Difficult to biodegrade - MSDS supplier

Chlorhexidine gluconate (18,87%) : . Difficult to biodegrade - MSDS supplier

Isopropyl alcohol (99,5%) : Biodegradability - 28days > 70 %. Easily biodegradable.; Oxidizes quickly by photochemical reaction. - MSDS supplier

Isopropyl alcohol (99,5%) : BOD 1,171 mg/g. - MSDS supplier

Isopropyl alcohol (99,5%) : COD 2,294 mg/g. - MSDS supplier

Bioaccumulation

Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthyle)-guanylguanidinium) : . Not bioaccumulative - MSDS supplier

Chlorhexidine gluconate : Log Koc > 3.9 . - MSDS supplier

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Isopropyl alcohol (99,5%) : Log Pow 0.05 . Not bioaccumulative - MSDS supplier

Mix-related data:

Acute toxicity

fishes . Not determined
daphnia . Not determined
algae . Not determined

Chronic toxicity

. No data available.

Degradability

. No data available.

Bioaccumulation

. No data available.

Mobility

. No data available.

Conclusion :

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/

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EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

SECTION 14: Transport information

ROAD TRANSPORT:

Rail/Route (RID/ADR)

UN no : 1993

UN proper shipping name : FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol+Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

Transport hazard class(es) : 3

Packing group : III

Hazard code : 30

Label : 3



Tunnel code : D/E

Environmental hazard : Yes (Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

Special precautions for user : No information.

Limited Quantity (QL): 5L

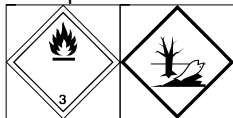
MARITIME TRANSPORT :

IMDG

UN no :1993

UN proper shipping name : FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol+Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

Transport hazard class(es) : 3



Packing group : III

Marine pollutant : Yes (Polyhexamethylene biguanide (monomeric: monochlorhydrate of 1,5-bis(triméthylen)-guanylguanidinium))

Special precautions for user : No information.

EmS number : F-E, S-E

Limited Quantity (QL): 5L

Transport in bulk according to Annex II of MARPOL and the IBC Code :

Not concerned

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SECTION 15: Regulatory information

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

Regulations relating to the hazards from major accidents :

SEVESO 3 Directive (2012/18/EC) : P5c E2

Regulations relating to the classification, packing and labelling of substances and mixes :

Regulation 1272/2008/EC amended.

Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC

Decision 2014/955/EC which establishes the list of hazardous waste.

Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation 850/2004/EC on persistent organic pollutants and modifying Directive 79/117/EC : Not applicable

Regulation 1005/2009/EC amended on substances that deplete the ozone layer : Not applicable

Regulation (EC) 648/2004 :

Not concerned

Comply with national and local legislation.

15.2. Chemical safety assessment

No

SECTION 16: Other information

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other

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demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

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

List of H phrases referred to in sections 2 and 3 :

H225 : Highly flammable liquid and vapour.

H302 : Harmful if swallowed.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H330 : Fatal if inhaled.

H336 : May cause drowsiness or dizziness.

H351 : Suspected of causing cancer.

H372 : Causes damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

MSDS supplier

International limit values for chemical agents

Historical :

Version 6.1.0

Cancels and replaces previous version 6.0.