

SAFETY DATA SHEET

in accordance with REACH Regulation (EC) No 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: Prebona® Disinfect™

1.2 Use(s)

Relevant identified uses of the substance or mixture: PT1 (Human hygiene) according to EU Regulation No 528/2012
Hand disinfection

Uses advised against: All other uses are prohibited unless expressly permitted.

1.3 Details of the supplier of the safety data sheet

Supplier: Prebona AB

Address: Varvsgatan 4
SE-272 36 Simrishamn
Sweden

Telephone and fax: +46 (0) 414 12445

Email: info@prebona.com, www.prebona.com

1.4 Emergency telephone number

Emergencies (day or night): Call 112 and ask for POISON INFORMATION

General and preventive inquiries (weekdays 09:00-17:00): 010-456 6700 (Swedish Poisons Information Centre)

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture in accordance with Regulation (EC) No 1272/2008 (CLP)

The product is not subject to a labelling requirement according to the CLP Regulation.

2.2 Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms and signal words:



Warning

Hazard statements:

H400 Very toxic for aquatic life

H410 Very toxic for aquatic life with long lasting effects

Precautionary statements:

P273 Avoid release to the environment

P391 Collect spillage

P501 Dispose of content/container as hazardous waste in accordance with local regulations

Other labelling:

Biocidal active substance: silver nitrate, CAS No. 7761-88-8, 0.016%

Keep out of reach of children (applicable to consumer)

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2.3 Other hazards

PBT substance: YES NO NOT APPLICABLE
 vPvB substance: YES NO NOT APPLICABLE

Physical hazards: Discolouration in contact with metal surfaces.

Health hazards: May cause irritation in contact with eyes.

Environmental hazards: Avoid release to aquatic environments.

2.4 Authorisation (substance)

See Section 15.1.2 Authorisation and restrictions according to Annexes VI and VIII of REACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Substance	CAS No	Content, conc. weight%	Classification according to CLP (EC) No 1272/2008 Hazard class and hazard statement codes*
Amorphous silicon dioxide	7631-86-9	2%	Not subject to labelling requirement.
Silver nitrate	7761-88-8	0.016%	Ox. Sol. 1 H271 Met. Corr. 1; H290 Skin Corr. 1B, H314 Eye Dam. 1; H318 Aquatic Acute 1. H400 Aquatic Chronic 1: H410
Water	7732-18-5	98%	Not subject to labelling requirement.

*A glossary of the abbreviations denoting hazard class and hazard statement codes is provided under Section 16.2

4. FIRST AID MEASURES

4.1 Description of first aid measures

Following inhalation: Not applicable.

Following skin contact: Not applicable.

Following eye contact: Immediately flush eye cautiously with running water or saline eye wash for several minutes. Remove contact lenses if present. If discomfort persists, seek medical attention.

Following ingestion: Seek medical attention/contact Swedish Poisons Information Centre. Do not induce vomiting. If fully conscious, the injured party should drink a small amount water.

4.2 Most important symptoms and effects, both acute and delayed

Symptom: Irritates eyes upon contact/splashing risk.

4.3 Indication of any immediate medical attention and special treatment needed

Special/immediate medical attention/treatment: No special treatment. Treatment according to symptoms.

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5. FIREFIGHTING MEASURES

5.1 Extinguishing media

The product is not flammable. Extinguishing media should be selected with regard for fire in the surroundings.

5.2 Special hazards arising from the substance or mixture

The product is classified as very hazardous to the aquatic environment. Extinguishing water containing product must be collected for treatment and prevented from dispersing in aquatic environments.

5.3 Advice for firefighters

No special treatment. General precautions for firefighting apply. Evacuate in accordance with fire safety procedure. Move containers from the site of the fire if this can be achieved at no risk. Avoid inhalation of fumes. For all firefighting, adequate protective equipment should be used. Fully-covering protective equipment and breathing apparatus are recommended.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal protective equipment: Avoid eye and skin contact/exposure. Always wear protective gloves, protective clothing and protective goggles during any contact with chemical substances.

6.2 Environmental precautions

General precautions: Contain the area so that handling of spills may be achieved so as to prevent the product reaching wells, drains or being released directly into the external environment. For major spills or leaks, contact the local emergency services.

6.3 Methods and material for containment and cleaning up

No containment is required. Clean up product mechanically/by vacuuming or using inert absorbent materials.

6.4 Reference to other sections

More information about appropriate personal protective equipment is provided under Section 7. See Section 13 DISPOSAL CONSIDERATIONS for information on disposal of spills.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid eye contact.

Wear protective protective goggles to reduce the risk of exposure to splashes.

7.2 Conditions for safe storage, including any incompatibilities

The product must be stored in a sealed dark-coloured container of non-corrosive material and above freezing.

Recommended storage temperature: 5 – 35°C.

Keep out of reach of children (applicable to consumer).

Product must be used within 18 months.

7.3 Specific end use(s)

Exposure scenario:

YES, see Annex to this safety data sheet NO, not applicable. See Section 15.2.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This section is intended for professional undertakings in controlling occupational exposure for workplace users.

8.1 Control parameters

8.1.1 NATIONAL OCCUPATIONAL EXPOSURE LIMIT VALUES OR UNION LIMIT VALUES

National occupational exposure limit values:	<input type="checkbox"/>	YES, see table below	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	Not applicable.
Guideline Union limit values:	<input type="checkbox"/>	YES,	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	Not applicable.

Other information: the occupational exposure limit value for inhalable dust for amorphous silicon dioxide is not applicable, as the product is in liquid form.

8.2 Exposure controls

General safety and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.
Engineering controls:	Not applicable.
Eye/face protection:	Use suitable protective safety goggles.
Skin protection:	Not applicable.
Respiratory protection:	Not applicable.
Environmental exposure controls:	Avoid release to aquatic environments. See Sections 6.2 and 13 for more information.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Parameter	Value	Method/Remark
Appearance:	Liquid	-
Colour:	Transparent, slightly dark shade	-
Odour:	Odourless	-
pH:	5,5 - 8.0	For ready-to-use solution
Melting point/boiling point:	0 °C/100 °C	
Viscosity	<50 mPa·s	Brookfield viscometer
Flammability (solid, gas):	Not applicable.	-
Upper/lower flammability or explosive limits:	Not applicable.	-
Bulk density:	1040 - 1060 kg/m ³ @	-
Solubility:	Suspension/dispersion in water	-
Explosive properties:	Not applicable	-
Oxidising properties:	Not established.	No information.

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9.2 Other information

Causes discolouration in contact with non-absorbent materials and light-coloured surfaces.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Product is stable during normal and recommended storage and handling.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Avoid freezing and high temperatures during storage.

10.5 Incompatible materials

Avoid contact with metals such as aluminium, copper and light metals. Causes discolouration in contact with metal surfaces.

10.6 Hazardous decomposition products

No information available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This section of the safety data sheet is meant for use primarily by medical professionals, occupational health and safety professionals and toxicologists.

11.1.1 SUBSTANCE - INFORMATION ON HAZARD CLASSES

Acute toxicity: no data on the mixture is available. The information refers to the individual constituent substances. The product is not classified as being acutely toxic.

Individual substances

<u>Substance</u>	<u>Exposure</u>	<u>Species</u>	<u>Results</u>	<u>Method</u>	<u>Remarks</u>
Amorphous silicon dioxide	Acute oral	Rat	LD50: >5,000 mg/kg	-	Source: supplier
Silver nitrate	Eyes	Rabbit	1 mg: serious/severe eye irritant	-	Source: supplier
Silver nitrate	Eyes	Rabbit	10 mg: measurable eye irritation.	-	Source: supplier

Skin corrosion/irritation: The product is not classified as being an eye or skin irritant. But may cause irritation in contact with eyes.

Serious eye damage/irritation: The product is not classified as being an eye or skin irritant. But may cause irritation in contact with eyes.

Respiratory or skin sensitisation: No information available.

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Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

Specific Organ Toxicity (STOT) – single exposure: No information available.

Specific Organ Toxicity (STOT) – repeated exposure: No information available.

Aspiration hazard: No information available.

Other information: No information available.

12. ECOLOGICAL INFORMATION

Summary: No data on the mixture is available. The information refers to data on the individual constituent substances. The product is classified as hazardous to aquatic life with chronic impacts, and release directly to an aquatic environment must be avoided.

12.1 Toxicity

Substance	Studies and Exp. time	Results	Method	Remarks
Similar mixtures of amorphous silicon dioxide.	Fish (zebra fish), 96h	LC50:> 5,000 mg/l	-	Source: supplier
Similar mixtures of amorphous silicon dioxide.	Daphnia (Big water flea), 48h	EC50: 7,600 mg/l	-	Source: supplier
Similar mixtures of amorphous silicon dioxide.	Microalga (<i>Selenastrum capricornutum</i>) 48h	NOEC: 60 mg/l	-	Source: supplier
Similar mixtures of amorphous silicon dioxide.	Microalga (<i>Selenastrum capricornutum</i>) 48h	EC50: 120 mg/l	-	Source: supplier
Similar mixtures of amorphous silicon dioxide.	Microalga (<i>Selenastrum capricornutum</i>), 48h	NOEC: 60 mg/l	-	Source: supplier
Silver nitrate	Algae (<i>Pseudokirchneriella subcapitata</i>), 96h	EC50: 0.0026 ppm	-	Source: supplier
Silver nitrate	Crustaceans (<i>Acartia tonsa</i> adult) 48h	EC50: 2 ng/L marine water	-	Source: supplier
Silver nitrate	Daphnia (<i>Daphnia magna</i> Neonate) 48h	LC50: 0.18 µg/L	-	Source: supplier

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Silver nitrate	Fish (<i>Oncorhynchus mykiss</i> juvenile) 96h	LC50: 0.3µg/L	-	Source: supplier
Silver nitrate	Algae (<i>Staurastrum cristatum</i>) 4 days	IC10: 2µg/L	-	Source: supplier
Silver nitrate	Crustaceans (<i>Hyaella azteca</i> adult) 21 days	NOEC: 0.9 µg/L	-	Source: supplier
Silver nitrate	Daphnia (<i>Daphnia magna</i>) 21 days	NOEC: 1.49 µg/L	-	Source: supplier
Silver nitrate	Fish (<i>Oncorhynchus mykiss</i> embryo) 34.06 days	NOEC: 0.005 µg/L	-	Source: supplier

12.2 Persistence and degradability

Biotic degradability: No information available.

Abiotic degradability: No information available.

12.3 Bioaccumulative potential

log Kow and/or BCF value: No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT substance: YES NO NOT APPLICABLE
 vPvB substance: YES NO NOT APPLICABLE

12.6 Other adverse effects

Avoid release to aquatic environments.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 WASTE CLASSIFICATION

Hazardous waste: YES NO

Waste type and handling: (residual product) Waste code: not applicable.
 Content/container must be handled as hazardous waste (chemicals/biocides).

Waste type and handling: (packing) Content/container must be handled as hazardous waste.

14. TRANSPORT INFORMATION

Dangerous goods: YES NO

14.1 UN number Not relevant.

14.2 UN proper shipping name Not relevant.

14.3 Transport hazard class Not relevant.

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- 14.4 Packing group** Not relevant.
- 14.5 Environmental hazards** Not relevant.
- 14.6 Special precautions for user** Not relevant.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not relevant.

15 REGULATORY INFORMATION

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

15.1.1 GENERAL SAFETY, HEALTH AND ENVIRONMENTAL STATUTES/REGULATIONS

Information concerning applicable regulations/legislation: The products are comprised by general regulatory provisions such as:

Sweden: Environmental Code (1998:808) Ch. 14 Chemical products and biotechnical organisms
 Sweden: Chemical Products and Biotechnical Organisms Ordinance (2008:245).
 Sweden: KIFS 2017:7 Chemical products and Biotechnical Organisms Regulations
 Sweden: KIFS 2008:3 - Pesticides Regulations

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
 Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).
 Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products. BPR)

Work environment: Not applicable.
 External environment: EU Waste Framework Directive 2008/98/EC
 Safety: Not applicable.

15.1.2 AUTHORISATION AND RESTRICTIONS ACCORDING TO ANNEXES VI AND VIII of REACH (EC) NO 1907/2006

Authorisation (substance): YES, authorisation no: NO
 Restriction (substance/mixture): YES NO

15.1.3 PACKAGING REQUIREMENTS FOR CONSUMER PRODUCTS ACCORDING TO CLP (EC) NO 1272/2008, ANNEX II, PART 3.

Consumer product: YES NO
 Child-resistant fastenings: YES NO
 Tactile warning device: YES NO

15.2 Chemical Safety Assessment (CSR)

Chemical safety assessment: YES, mixture YES, substance (s) NO. Not required according to Article 37 of REACH Regulation.

16. OTHER INFORMATION

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16.1 Revisions to this safety data sheet

<i>Version</i>	<i>Amendments</i>	<i>Date</i>
1.0	First edition	2020-03-16

16.2 Glossary of abbreviations in the safety data sheet

BCF	Bioconcentration Factor
EC ₅₀	Effect concentration to 50% of test population in aquatic environment
LC ₅₀	Lethal Concentration to 50% of a test population
LD ₅₀	Lethal Dose to 50% of a test population (Median Lethal Dose)
IC ₁₀	Inhibition Concentration to 10%
NOEC	No Observed Effect Concentration
log Kow	Partition coefficient n-octanol/water
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	Very Persistent and Very Bioaccumulative
Ox. Sol. 1; H271	May cause fire or explosion. Strong oxidiser.
Met. Corr. 1; H290	May be corrosive to metals
Skin Corr. 1B; H314	Causes severe skin burns and eye damage
Eye Dam. 1; H318	Causes serious eye damage
Aquatic Acute 1; H400	Very toxic to aquatic life
Aquatic Chronic 1; H410	Very toxic to aquatic life with long-lasting effects

16.3 Other

The information in this safety data sheet is based on our current knowledge and is intended to describe the products from the point of view of safety only. The safety data sheet is not to be regarded as a chemical specification.

The information is intended solely as a guide to safe handling, use, processing, storage, transportation, waste disposal and spill and release clean-up and shall not be construed as a warranty or quality specification.

Sources and references

CLP Regulation, Harmonised classification and labelling, Part 3, Annex VI
ECHA C&L Inventory
Swedish Work Environment Authority
SDS for the constituent ingredients from suppliers.