

1. NAME OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Product identifier

Trade name: Prebona® DuraClean™

1.2 Use

Relevant identified uses of the substance or mixture: Dirt repellent surface treatment for concrete, brick and other surfaces.

Uses that are not recommended: The product should only be used in accordance with the fields of application specified above.

1.3 Detailed information about the supplier of the safety data sheet

Supplier: Prebona AB

Address: Varvsgatan 4
SE-272 36 Simrishamn
Sweden

Telephone and fax: +46 (0) 70 715 3247

E-mail: info@prebona.com, www.prebona.com

1.4 Telephone number for emergencies

Emergencies (all day): 112 ask for SWEDISH POISONS INFORMATION CENTRE

General and preventive questions (Mon-Fri 9 am - 5 pm): +46 (0) 8 - 33 12 31 (Giftinformationscentralen/Poisons Information Centre)

2. HAZARDOUS PROPERTIES

2.1 Classification of the mixture pursuant to the Regulation (EC) no. 1272/2008 (CLP)

The product does not need labelling pursuant to the CLP Regulation.

2.2 Labelling information pursuant to the Regulation (EC) no. 1272/2008 (CLP)

Pictogram and signal word:

Not applicable.

Hazard statements:

Not applicable.

Precautionary statements:

Not applicable.

Other labelling:

Only for professional use.

2.3 Other hazards

PBT substance:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> NOT APPLICABLE
vPvB substance:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> NOT APPLICABLE

Physical hazards: Discolouring of metal surfaces on contact.
Health hazards: Do not inhale aerosol.
Environmental hazards: Alkaline product. Prevent release to aquatic environments.

2.4 Authorisation (substance)

See section 15.1.2 Authorisation and restrictions pursuant to section VII and VIII of REACH.

3. COMPOSITION/INFORMATION ON CONSTITUENTS

3.1 Mixtures

<i>Substance</i>	<i>CAS no.</i>	<i>Content, conc. weight %</i>	<i>Classification pursuant to CLP (EC) no. 1272/2008 Class of danger and hazard statements codes</i>
Silica amorph.	7631-86-9	5%	No labelling needed
Water	7732-18-5	95%	No labelling needed

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Discomfort/coughing, fresh air and rest are recommended.
Skin contact: Wash the skin with soap and water. Remove contaminated clothing and footwear.
Eye contact: Rinse immediately with soft water jet or eyewash fluid for several minutes. Take out contact lenses if present. If irritation persists, seek medical attention.
Ingestion: Drink a couple of glasses of water/milk if the injured is fully conscious. Go to doctor/hospital if a large quantity has been ingested or lasting discomfort.

4.2 The most important symptoms and effects, both acute and delayed

Symptom: Irritation of the eyes and skin on contact/splash risk.

4.3 Information on immediate medical treatment and special treatment that may be required

Special/immediate medical treatment: Nothing in particular. Treatment based on symptoms.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Unusual hazards involved with the substance or mixture

Nothing in particular.

5.3 Advice to firefighting personnel

Nothing in particular. General consideration during firefighting applies.
Evacuate according to routines for fire. Move containers away from the fire, if this can be done without risk. Do not inhale fumes. During all firefighting, adequate protective equipment should be used. Full protective clothing and breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal protection measures, protective equipment and actions in case of emergency**

Personal safety equipment: Avoid contact/exposure with eyes and skin. Always use protective gloves, protective clothing and safety goggles during all contacts with chemical substances.

6.2 Environmental measures

General measures: Limit leakages so spills can be cleaned up without the product reaching watercourses, drains or the external environment directly. In the case of large spills or releases, contact the local rescue services.

6.3 Methods and materials for containment and cleaning

No containment required. Gather the product up mechanically/by suction or with inert absorbent material. Contaminated area may need rinsing down with water.

6.4 Reference to other sections

More information on the choice of personal protective equipment can be found in section 7. See section 13 Waste Management for information on disposal of spills.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Prevent formation and inhalation of dust/fumes/aerosol.
Prevent contact with eyes and skin.
Wear protective clothing and protective goggles.

7.2 Conditions for safe storage, including any incompatibility

The product should be stored in sealed, dark container made in non-corrosive material, as well as frost free.
Recommended storage temperature is between 5 – 35°C.

7.3 Specific final use

Exposure scenario: YES, see appendix to the safety data sheet NO, not applicable. See section 15.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This section is intended for professional activities and work environment exposure for professional users.

8.1 Control parameters**8.1.1 NATIONAL HYGIENIC LIMIT VALUES OR EC LIMIT VALUES**

National hygienic limit values: YES, see table below NO Not applicable
Guidance EC limit values: YES, NO Not applicable

Other information: hygienic limit values for inhalable dust for silica amorph are not applicable, because the product is in liquid form.

8.2 Exposure controls

Technical protection measures:	Provide good ventilation in the work area.
Eye/face protection:	Wear suitable safety goggles or face protection.
Skin protection:	Wear rubber/PVC gloves and fully covering workwear.
Respiratory protection:	Use suitable respiratory protection such as full-face mask or half-mask.
Environmental exposure:	Prevent release to aquatic environments. See points 6.2 and 13 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on fundamental physical and chemical properties**

Parameter	Value	Method/Note
Appearance:	Liquid	-
Colour:	Clear slightly dark hue	-
Smell:	Weak	-
pH value:	7-11	For ready to use solution
Melting point/boiling point:	0°C/100°C	
Viscosity:	<50 mPa·s	Brookfield rotational viscometer
Flammability (solid/gas):	Not applicable	Inert material
Upper/lower flammability limit or explosive limit:	Not applicable	Inert material
Bulk density:	1,040 – 1,060 kg/m ³	-
Solubility:	Suspension/dispersion in water	-
Explosive properties:	Not applicable	Inert material
Oxidising properties:	Not applicable	Inert material

9.2 Other information

No information available.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

The product is stable during normal and recommended storage and use.

10.2 Chemical stability

No information available.

10.3 Risk for dangerous reactions

No information available.

10.4 Conditions to be avoided

Frost and high temperatures during storage.

10.5 Incompatible material

Causes discolouring on contact with metal surfaces.

10.6 Hazardous decomposition products

No information available.

11. TOXICOLOGY INFORMATION

11.1 Information on the toxicological effects

This section is intended for medical personnel, professionals in the work environment field and toxicologists.

11.1.1 SUBSTANCE - INFORMATION ON CLASSES OF DANGER

Acute toxicity: There is no data available regarding the mixture. The information refers to the calculated value for the mixture in the form ATE_{mix} pursuant to the CLP Regulation and data on the individual constituent substances.

Ingestion: ATE_{mix} = 606,060 mg/kg

Skin contact: ATE_{mix} = not applicable.

Inhalation: ATE_{mix} = not applicable.

Individual substances

<u>Substance</u>	<u>Exposure</u>	<u>Nature</u>	<u>Results</u>	<u>Method</u>	<u>Remarks</u>
Silica amorph.	Acute oral	Rats	LD50: >10,000 mg/kg	-	Source: supplier

Burns/irritation to the skin: Irritating to the eyes and skin (alkaline product)

Sensitisation: No information available. See Note 1 below.

Mutagenicity: No information available. See Note 1 below.

Carcinogenicity: No information available. See Note 1 below.

Reproductive toxicity: No information available. See Note 1 below.

Other information: No information available.

Remarks 1 – the product/substance is not classified as such according to the harmonised classification and labelling in Annex VI to the CLP Regulation (EC) No. 1272/2008.

12. ECOLOGICAL INFORMATION

Summary: There is no data available regarding the mixture. The information refers to data on the individual constituent substances. The product is not classified as hazardous to aquatic environments but, because the product has a relatively high pH value (7-11), direct release to aquatic environments should be prevented.

12.1 Toxicity

Substance	Studies and Exp. time	Results	Method	Remarks
Similar mixtures of silica amorph.	Fish (zebra fish), 96 h	LC50: > 5,000 mg/l	-	Source: supplier
Similar mixtures of silica amorph.	Daphnia (Big water flea), 48h	EC50: 7,600 mg/l	-	Source: supplier
Similar mixtures of silica amorph.	Algae (Selenastrum capricornutum), 48h	NOEC: 60 mg/l	-	Source: supplier

12.2 Persistence and degradability

Biotic degradability: Not applicable. Inert material.

Abiotic degradability: Not applicable. Inert material.

12.3 Bioaccumulation capacity

log Kow and/or BCF value: Not applicable. Inert material.

12.4 Mobility in soil

Not applicable. Inert material.

12.5 Results of PBT and vPvB assessment

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

12.6 Other harmful effects

Alkaline product. Prevent release to aquatic environments.

13. WASTE MANAGEMENT

13.1 Waste treatment methods

13.1.1 CLASSIFICATION OF WASTE

Hazardous waste: YES NO

Waste type and management: (residual product) Waste code: not applicable. Alkaline waste. Spills and residual product should be managed so as to prevent water environments from being exposed.

Waste type and management: (packaging) Well cleaned packaging can be handled in the recycling process for each type of material.
 15 01 01 Paper and paperboard packaging
 15 01 02 Plastic packaging
 15 01 03 Wood packaging
 20 01 01 Paper and paperboard

14. TRANSPORT INFORMATION

Dangerous goods: YES NO

14.1 UN number Not relevant.

Not relevant.

14.2 Official transport name

Not relevant.

14.3 Transport hazard class

14.4 Packaging group Not relevant.

Not relevant.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions

Not relevant.

14.7 Bulk transport according to annex II to MARPOL 73/78 and the IBC code

15 REGULATORY INFORMATION

15.1 Regulations/statutes concerning the substance or mixture regarding safety, health and environment

15.1.1 GENERAL PROVISIONS REGARDING SAFETY, HEALTH AND ENVIRONMENT

Information on applicable provisions: The product is subject to general ordinances such as:

Environmental Code (1998:808) chapter 14, Chemical Products and Biotechnical Organisms.

The Chemical Products and Biotechnical Organisms Ordinance (2008:245).
KIFS 2008:2 chemical products and biotechnical organisms

Regulation (EC) no. 1907/2006 concerning Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Regulation (EC) no. 1272/2008 concerning Classification, Labelling and Packaging of substances and mixtures (CLP).

Work environment: Not applicable.

External environment: EU Waste Framework Directive 2008/98/EC

Safety: Not applicable.

15.1.2 AUTHORISATION AND RESTRICTION PURSUANT TO ANNEX VII AND VIII IN REACH (EC) no. 1907/2006

Authorisation (substance): YES, authorisation no.: NO

Restrictions (substance/mixture): YES NO

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

Consumer product: YES NO

Child-proof closure:

YES

NO

Tactile warning:

YES

NO

15.2 Chemical safety report (CSR)

Chemical safety report:

YES, mixture

YES,
substance
(s)

NO. Not required pursuant
to Article 37 in the REACH
Regulation.

16. OTHER INFORMATION

16.1 Revision of the safety data sheet

Version	Changes	Date
1.0	First edition	March 2015
1.1	Minor changes	August 2015
2.0	CLP classification and revision of all sections.	February 2016

16.2 Explanation 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)
log Kow	Partition coefficient n-octanol/water
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	Very Persistent and Very Bioaccumulative

16.3 Other

Information in this safety data sheet is based on our current knowledge and is intended to describe the product from a safety perspective. The safety data sheet is not to be considered as a chemical specification.

The information is only intended for guidance to safe handling, use, processing, storage, transport, waste management and releases and must not be considered as a guarantee or quality specification.

Sources and references

Prevent substances database

CLP Regulation, harmonised classification and labelling, Part 3, Annex VI

ECHA C&L Inventory

The Swedish Work Environment Authority