

MEDICAL DEVICE

SAFETY DATA SHEET

Product name:
PoloDent Porcelain Etch Gel

POLO MB OISTERWIJK BV

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

1.1 Product identifier

Product name: PoloDent® Porcelain Etch Gel
Article number: 39 66 75 9,6% hydrofluoric acid

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

Use of substance/mixture: Coating.

1.3 Details of the supplier of the safety data sheet

Company: Polo MB Oisterwijk BV
Laarakkerweg 5
5061 JR Oisterwijk
The Netherlands
www.polodent.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Tox. 2: H310
Acute Tox. 3: H331
Skin Corr. 1A: H314
Eye Dam. 1: H318

2.2 Label elements

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

Hazard pictograms:



GHS05: Corrosion
GHS06: Skull and crossbones

Signal word: Danger

Hazard-determining components of labelling: hydrogen fluoride

Hazard statements: H310 - Fatal in contact with skin.
H331 - Toxic if inhaled.
H314 - Causes severe skin burns and eye damage.

Precautionary statements: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P262 - Do not get in eyes, on skin, or on clothing.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361 - Remove/Take off immediately all contaminated clothing.
P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water.
P321 - Specific treatment (see on this label).
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

PBT/vPvB: This product is not identified as a PBT/vPvB substance.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

Chemical Name	EINECS No.	CAS No.	PBT / WEL	Percent	Classification (CLP)
HYDROGEN FLUORIDE	231-634-8	7664-39-3	-	2.5-10%	acute Tox. 2: H300; Acute Tox. 1: H310; Acute Tox. 2: H330; Skin Corr. 1A: H314

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product. Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

Skin contact: Rub in Ca-gluconate solution or Ca-gluconate gel immediately.
Call a doctor immediately.
Immediately wash with water and soap and rinse thoroughly.

Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Swallowing: Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

Inhalation: Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Environmental precautions: Dilute with plenty of water.
Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s)

Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Chemical Name	8 hour TWA	15 min STEL
HYDROGEN FLUORIDE	1.5 mg/m ³ , 1.8 ppm	2 mg/m ³ , 3 ppm

Additional information: The lists valid during the making were used as basis.

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SECTION 8 (continued): Exposure controls / personal prote

8.2 Exposure controls

General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
Respiratory protection:	Use suitable respiratory protective device in case of insufficient ventilation.
Hand protection:	Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. As protection from splashes gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)
Eye protection:	Safety glasses. Tightly sealed goggles.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Fluid. Highly viscous.
Colour:	Red
Odour:	Characteristic
pH (at 20°C):	< 0.5
Melting point/Melting range:	0°C
Boiling point/Boiling range:	> 34°C
Flash point (°C):	Not applicable.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapour pressure (at 20°C):	23 hPa
Density (at 20°C):	1 g/cm ³
Solubility in / Miscibility with water:	Fully miscible.
Solvent content:	
- Organic solvents	0.0%
- Water	> 90%
- VOC (EC)	0%
Solids content:	< 2%

9.2 Other information

Other information:	No further relevant information available.
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SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity: No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Hazardous reactions: Attacks materials containing glass and silicate.

10.4 Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5 Incompatible materials

Materials to avoid: No further relevant information available.

10.6 Hazardous decomposition products

Haz. decomp. products: Hydrogen fluoride.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

HYDROGEN FLUORIDE

Oral	RAT	LD50	1276 mg/kg
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Skin contact: Caustic effect on skin and mucous membranes.

Eye contact: Strong caustic effect.

Sensitisation: No sensitizing effects known.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic
Corrosive
Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil

Mobility: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

12.5 Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 03	hydrofluoric acid

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

14.1 UN number

ADR, IMDG, IATA: UN1790

14.2 UN proper shipping name

ADR: 1790 HYDROFLUORIC ACID

IMDG: HYDROFLUORIC ACID

IATA: HYDROFLUORIC ACID

14.3 Transport hazard class(es)

ADR, IMDG, IATA:

- Class: 8 Corrosive substances.

- Label: 8+6.1

14.4 Packing group

ADR, IMDG, IATA: II

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler): 86

EMS Number: F-A,S-B

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR:

- Excepted quantities (EQ): E2

- Limited quantities (LQ): 1L

- Transport category: 2

- Tunnel restriction code: E

UN "Model Regulation": UN1790, HYDROFLUORIC ACID, 8 (6.1), II

SECTION 15: Regulatory information

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

Labelling according to

Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation.

15.2 Chemical safety assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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SECTION 16: Other information

16.1 Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Phrases used in s.2 and s.3:	H300 - Fatal if swallowed. H310 - Fatal in contact with skin. H314 - Causes severe skin burns and eye damage. H330 - Fatal if inhaled.
Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases – Category 1 Aerosol 1: Aerosols – Category 1 Press. Gas C: Gases under pressure – Compressed gas
Legal disclaimer:	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy, reliability or completeness. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. It is the user's responsibility to satisfy him/herself as to the suitability of such information for his /her own particular use.