

Safety Data Sheet

Date of print: 11.11.2011

Date of last alteration: 11.11.2011

1 Identification of the substance/preparation and company

1.1 Name of substance/preparation

Commercial product name: **MARISEAL 800 PLUS**

1.2 Use of substance / preparation

Water and Oil Repellent for mineral surfaces

1.3 Company name

Manufacturer/distributor: MARIS POLYMERS SA
Address: Industrial Area of Inofita
D 81737 München
Telephone: +30 22620 32918 - 9
Telefax: +30 22620 32040

1.4 Emergency telephone number

+30 210 7793777 Poisoning Center Athens

2 Hazards identification

2.1 Classification

Classification (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

2.2 Labelling

Labelling (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	

S-Phrase	Description
S-	

Special identification instructions:

Contains: 3-(2-aminoethylamino)propyl trimethoxysilane . May produce an allergic reaction. Safety data sheet available for professional users on request.

3 Composition/information on ingredients

3.1 Chemical characterization (preparation)

Alkoxy silanes + Fluoropolymer + water

3.2 Hazardous ingredients

EC-No.	CAS No.	Material	Content %	Warning Label (EC)	
				Symbol	R-Phrases*
203-933-3	112-07-2	2-Butoxyethyl acetate	<5,00	Xn	R20/21
	9043-30-5	alpha-i-tridecyl-omega-hydroxypolyglycolether	<3	Xn	R22-41

*Classification codes are explained in section 16.

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4. First-aid measures

4.1 General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

4.2 After inhalation

Provide fresh air. In cases of sickness seek medical advice (show label or SDS if possible).

4.3 After contact with the skin

Wash with plenty of water or soap and water; immediately remove all contaminated clothing. Seek medical advice in case of continuous irritation.

4.4 After contact with the eyes

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.

4.5 After swallowing

Seek medical advice immediately and produce the label or packaging. If conscious, give several small portions of water to drink. Do not induce vomiting.

5. Fire-fighting measures

5.1 Suitable extinguishing media

water spray , alcohol-resistant foam , carbon dioxide , dry sand .

5.2 Extinguishing media which must not be used for safety reasons

water jet .

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous combustion products: hydrogen fluoride .

5.4 Special protective equipment for fire fighting

Use respiratory protection independent of recirculated air.

6. Accidental release measures

6.1 Personal precautions

Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth).

6.3 Methods for cleaning up

Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers.

6.4 Further information:

None required.

7. Handling and storage

7.1 General information:

Always stir well before use.

7.2 Handling

Precautions for safe handling:

Ensure adequate ventilation. Avoid formation of aerosols. Spilled substance increases risk of slipping. Keep away from incompatible substances in accordance with section 10.2.

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Precautions against fire and explosion:

Observe the general rules for fire prevention.

7.3 Storage

Conditions for storage rooms and vessels:

Protect against frost.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Keep container tightly closed and store in a cool, well ventilated place.

Minimum temperature allowed during storage and transportation: 0 °C

Maximum temperature allowed during storage and transportation: 50 °C

8. Exposure controls and personal protection equipment

8.1 Exposure limits

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8.2 Exposure limited and controlled

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Do not eat, drink or smoke when handling. Avoid contact with eyes and skin. Avoid formation of aerosols.

Personal protection equipment

Respiratory protection

In case of aerosol- or mist formation use respiratory protection.

Hand protection

Protective gloves made of butyl rubber . Gloves suitable for up to 60 minutes' use.

Eye protection

protective goggles .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil.

8.3 Further information for system design and engineering measures

Observe information in section 7.

9. Physical and chemical properties

9.1 General information

Physical state / form : liquid

Colour..... : white

Odour : pleasant

9.2 Important information about the protection of health, safety and the environment

Property:

Melting point / melting range:

Value:

not applicable

Method:

Boiling point / boiling range:

> 95 °C at 1014 hPa

(ISO 2719)

Flash point.....:

> 100 °C

Ignition temperature:

> 400 °C

Lower explosion limit (LEL):

not applicable

Upper explosion limit (UEL).....:

not applicable

Vapour pressure.....:

approx. 25 hPa at 20 °C

Density:

1,0 g/cm³ at 25 °C, at 1014 hPa

Water solubility / miscibility.....:

completely miscible

pH-Value:

6 at 25 °C

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Viscosity (dynamic): approx. 8 mPa.s

10. Stability and reactivity

10.1 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2 Conditions to avoid

none known

10.3 Materials to avoid

Reacts with: acids and basic substances . Reaction causes the formation of: ethanol .

10.4 Hazardous decomposition products

If stored and handled properly: none known . Under thermal stress: hydrogen fluoride and fluorocarbons .

11. Toxicological information

11.1 General information:

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable. Avoid inhalative exposure! The toxicological results listed below are based on tests with similar materials.

11.2 Toxicological tests

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
by inhalation	5,4 mg/l/4h (spray / dust)	rat	test report

Specific symptoms in animal test:

Acute inhalation: A dilution of 5% actives in water has been tested.

Further information:

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11.3 Experience with man

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11.4 Further toxicological information

Aerosol mist must not be inhaled, as lung damage can be expected. Product(s) of hydrolysis: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degrades the skin, is narcotic and may cause liver damage.

12. Ecological information

12.1 Ecotoxicity

No data known.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

Do not introduce large amounts into purification plants.

12.2 Mobility

-

12.3 Persistence and degradability

Biodegradation / further information:

The hydrolysis product (Ethanol) is readily biologically degradable. Silicone content: Biologically not degradable.

Further information:

By hydrolysis: ethanol and silanol- and/or siloxanol-compounds .

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12.4 Bio-accumulation potential

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12.5 Other harmful effects

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12.6 Additional information

General information:

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13. Disposal considerations

13.1 Material

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14. Transport information

14.1 Land transport ADR and RID

Road ADR:

Valuation: Not regulated for transport

Railway RID:

Valuation: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

Marine Pollutant: no

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

14.4 Transport/further information

Informing dept. ref. to heading 14. Transport information:

Department Hazardous Materials Service, Telefax: +49/(0) 8677/83-5589, Telephone: +49/(0) 8677/83-4950

15. Regulatory information

15.1 National regulations

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

15.2 Other international regulations

Details of international registration status:

Listed on or in accordance with the following inventories:

IECSC - China

TSCA - USA

EINECS - Europe

AICS - Australia

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16. Other information

16.1 Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

R-Phrase	Description
R20/21	Harmful by inhalation and in contact with skin.
R22 R41	Harmful if swallowed. Risk of serious damage to eyes.

- End of Safety Data Sheet -