

SAFETY DATA SHEET (91/155/EWG)**Protectosil® Antigraffiti**

degussa.

Material no.		Version	3.3 / GB
Specification	116768	Revision date	19.06.2005
VA-Nr		Print Date	22.06.2005
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	Protectosil® Antigraffiti
Company	:	Degussa AG, Aerosil & Silanes Produktsicherheit AS-FA-PS Postfach 1345 D-63403 Hanau
Telephone	:	+49 (0)6181 59-4787
Telefax	:	+49 (0)6181 59-4205
Emergency telephone number	:	+49 (0)7623-919191
Use of the Substance / Preparation	:	For industrial use
Function	:	hydro- and oleophobicizing agent

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Preparation on the base:
Organofunctional silane system
and
water

Information on ingredients / Hazardous components

• Methanol		< 0.5%	
CAS-No.	67-56-1	EC-No.	200-659-6
	F; R11		
	T; R23/24/25, R39/23/24/25		

See chapter 16 for text of risk phrases

Other information

The base materials of the polymer are included in the EINECS Inventory.

3. HAZARDS IDENTIFICATION

No specific hazards are known.

4. FIRST AID MEASURES**Inhalation**

If aerosol or mists are formed:

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If necessary See that there is fresh air.

Skin contact

Wash off with plenty of water and soap.

Eye contact

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort: Consult an ophthalmologist.

Ingestion

Have the mouth rinsed with water.

After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

Notes to physician

after absorbing large amounts of substance:

administration of activated charcoal.

Acceleration of gastrointestinal passage

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Water spray, foam, CO₂, dry powder.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment.

Environmental precautions

Do not allow entrance in soil, stretches of water, drainage systems.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: sand (for damming up), universal absorbent

7. HANDLING AND STORAGE**Handling****Safe handling advice**

Do not inhale mist / aerosols.

Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Take precautionary measures against static charges, keep away from sources of ignition.

Storage**Requirements for storage areas and containers**

Keep containers tightly closed in a cool, well-ventilated place.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters****Engineering measures**

Provide for good ventilation if vapours/aerosols are formed.

Personal protective equipment**Respiratory protection**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus

Hand protection

Glove material	for example, butyl-rubber
Material thickness	0.5 mm
Break through time	>= 480 min
Glove material	for example, Fluorinated rubber (Viton)
Material thickness	0.4 mm
Break through time	>= 480 min

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.

Remember that the useful time per day of a chemical protection glove may be much shorter than the permeation time determined according to EN 374 due to the many different influential factors involved (e.g. temperature).

Eye protection

safety glasses

Hygiene measures

Avoid contact with skin and eyes.

Remove contaminated or saturated clothing.

Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	yellowish, slightly turbid
Odour	almost odourless

Safety data

pH	ca. 4	(1000 g/l)	(20 °C)
Melting point/range	-1 °C		
	Method:	ISO 3841	
Boiling point/range	97 °C	(1013 hPa)	
	Method:	ASTM D-1120	

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Flash point	> 90 °C	
	Method:	DIN EN 22 719
Ignition temperature	not determined	
Vapour pressure	not determined	
Density	ca. 1.06 g/cm ³	(20 °C)
	Method:	DIN 51757
Water solubility	miscible	
Viscosity, dynamic	ca. 1.6 mPa.s	(20 °C)

Further information

Other information Vapours can form explosive mixtures with air.

10. STABILITY AND REACTIVITY

Hazardous reactions No dangerous reactions known.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: > 2000 mg/kg Method: OECD 423 Lit.(1)
Acute inhalation toxicity	LC50 Rat: > 5.5 mg/l / 4 h Method: OECD Test Guideline 403 Test substance: aerosol Lit.(1)
Skin irritation	not irritating Method: OECD Test Guideline 404 Lit.(1)
Eye irritation	slightly irritating Method: OECD Test Guideline 405 Lit.(1)
Sensitization	(Magnusson-Kligman test) : not sensitizing Method: OECD Test Guideline 406 Lit.(1)
Gentoxicity in vitro	Ames test Salmonella typhimurium no evidence of mutagenic effects Lit.(1)
Further information	Lit.(1) Own study

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12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability Result: 62 % Readily biodegradable.
Method: (CO₂; modif. Sturm test / OECD 301 B)

Behaviour in environmental compartments**Ecotoxicity effects**

Toxicity to fish LC₅₀ Brachydanio rerio: > 1000 mg/l / 96 h
Method: OECD 203

LC₀ Brachydanio rerio: 1000 mg/l / 96 h
Method: OECD 203

13. DISPOSAL CONSIDERATIONS**Product**

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

14. TRANSPORT INFORMATION**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Statutory basis/list Not subject to labelling provisions by Directive 67/548/EEC.

National legislation

16. OTHER INFORMATION**Risk phrase (R phrase) texts**

- **Methanol**

R11

Highly flammable.

R23/24/25

Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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