

MATERIAL SAFETY DATA SHEET
Protectosil® AQUA-TRETE® CONCENTRATE

degussa.

Material no.		Version	3.3 / US
Specification	141211	Revision date	03/15/2006
Order Number		Print Date	03/16/2006
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Protectosil® AQUA-TRETE® CONCENTRATE
Company : Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054
USA

Telephone : 973-541-8000

Telefax : 973-541-8040

US: CHEMTREC EMERGENCY NUMBER : 800-424-9300

CANADA: CANUTEC EMERGENCY NUMBER : 613-996-6666

Product Regulatory Services : 973-541-8060

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

NJTSR No.56705700001-5374P
CAS-No. Trade Secret Percent (Wt./ Wt.) 100 %

Other information

This material is classified as hazardous under OSHA regulations.

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Form-liquid Color-clear

Flammable liquid and vapor.
Vapors may cause flash fire or explosion.

POTENTIAL HEALTH EFFECTS

Eye contact

No hazard expected in normal use.

Skin Contact

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No hazard expected in normal use.

Inhalation

May be harmful.

Ingestion

No hazard expected in normal use.

Chronic Health Hazard

This product can hydrolyze to form a material posing additional health effects:
Methanol: OSHA PEL: TWA 200ppm (skin); ACGIH TLV: TWA 200ppm, STEL 250ppm (skin).
Causes moderate eye irritation with transient redness and discomfort. Contact causes moderate skin irritation with dryness (defatting), itching and/or rash. Absorption through the skin is possible and can cause nausea, headache, and general discomfort. Prolonged or repeated exposure may cause adverse eye effects such as conjunctivitis or corneal damage, and skin effects such as defatting, rash, or corrosion. Methanol is toxic by inhalation and ingestion. Inhalation of vapors may cause cyanosis, lethargy, loss of consciousness and death. The effects from inhalation may be delayed. Ingestion may cause malaise, discomfort, and death if not treated promptly. Medical conditions aggravated by exposure include: skin disorders and allergies, liver disorders and eye disease.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Skin contact

Flush skin with plenty of water. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.

Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Ingestion

If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point	33.89 °C , 93 °F Method: Pensky-Martens C.C.
Lower explosion limit	not determined
Upper explosion limit	not determined

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Suitable extinguishing media

Use water spray or fog, foam, dry chemical or CO2.

Specific hazards during fire fighting

Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Further information

Containers can build up pressure if exposed to heat (fire). Cool with water spray. As in any fire, wear self-contained, pressure-demand breathing apparatus (MSHA-NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.

Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Methods for cleaning up

Soak up with absorbent material, e.g., sand, silica gel, acid binder, universal binder or sawdust. Place in a marked, sealable container and dispose of in accordance with existing federal, provincial, state and local regulations.

7. HANDLING AND STORAGE

Handling

Safe handling advice

Use non-sparking equipment when the level of vapors and/or mists can exceed the explosive limit, especially in areas with poor ventilation.

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material. Use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage

Requirements for storage areas and containers

Keep container closed when not in use.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure.

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Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Use impermeable gloves.

Eye protection

Use chemical splash goggles or face shield.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Color	clear

Safety data

pH	not determined
Boiling point/range	137 °C
Flash point	33.89 °C Method: Pensky-Martens C.C.
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapor pressure	not applicable
Relative density	0.93
Water solubility	negligible reacts slowly with water
Solvents and Volatiles Data	% VOC (gm/l) 50
Evaporation rate	Slower than butyl acetate

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10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid high temperatures and sources of ignition.
Materials to avoid	Avoid contact with acids and oxidizing agents., Water
Hazardous decomposition products	Silicone polymers., Methanol in case of hydrolysis.
Further information	Stable under normal conditions. Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Product General Toxicity Information	The toxicological properties of this product have not been fully investigated.
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12. ECOLOGICAL INFORMATION

General Ecological Information	No ecotoxicological studies are available.
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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

14. TRANSPORT INFORMATION

D.O.T. Road/Rail

Class	3
UN-No	1993
Packing group	III
Proper shipping name	Flammable liquids, n.o.s.
Technical Name	(alkyl silane,)

Sea transport IMDG-Code

Class	3
UN-No	1993
Packaging group	III
EmS	F-E, S-E

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Proper technical name (Proper shipping name)
FLAMMABLE LIQUID, N.O.S.
(,)

Air transport ICAO-TI/IATA-DGR

Class 3
UN-No 1993
Packaging group III
Proper technical name (Proper shipping name)
Flammable liquid, n.o.s.
(,)

Loading instructions/Remarks

IATA_C ERG-Code 3L
IATA_P ERG-Code 3L
IATA_C USA: Observe RQ
IATA_P USA: Observe RQ
IMDG USA: Observe RQ
ADNR Special provision 640E

15. REGULATORY INFORMATION

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

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- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact Degussa Corporation Product Regulatory Department:

- | | |
|--------------------------|-------------------|
| • Europe (EINECS/ELINCS) | Listed/registered |
| • USA (TSCA) | Listed/registered |
| • Canada (DSL) | Listed/registered |
| • Australia (AICS) | Listed/registered |
| • Japan (MITI) | Listed/registered |
| • Korea (TCCL) | Listed/registered |
| • Philippines (PICCS) | Listed/registered |
| • China | Listed/registered |

16. OTHER INFORMATION

HMIS Ratings

Health : 1
Flammability : 3
Physical Hazard : 1

NFPA Ratings

Health : 1
Flammability : 3
Reactivity : 1

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Further information

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.