

# MATERIAL SAFETY DATA SHEET

## Protectosil® AQUA-TRETE® 20

degussa.

Material no.		Version	1.3 / US
Specification	150667	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® 20  
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

Triethoxyoctylsilane  
CAS-No. 2943-75-1 Percent (Wt./ Wt.)

#### Other information

This material is classified as hazardous under OSHA regulations.

### 3. HAZARDS IDENTIFICATION

#### \*\*\* EMERGENCY OVERVIEW \*\*\*

*Form-liquid Color-white Odor-odorless*

Causes respiratory tract irritation.  
May cause eye/skin irritation.

#### POTENTIAL HEALTH EFFECTS

##### Eye contact

Irritating.

##### Skin Contact

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Irritating.

### Inhalation

Severely irritating.

### Ingestion

The hazards of this material have not been fully investigated; ingestion may be hazardous.

### Chronic Health Hazard

This product can hydrolyze to form a material posing additional health effects:

Ethanol: ACGIH TLV: TWA 1000 ppm; OSHA PEL: TWA 1000 ppm. Liquid and high vapor concentrations cause eye irritation. Contact of liquid with skin causes drying, cracking, and irritation. Inhalation causes irritation of the respiratory tract. Repeated or prolonged exposure to high vapor concentrations may cause drowsiness. Excessive or repeated ingestion may cause central nervous system effects, liver effects and reproductive effects. However, ingestion is not an expected route of exposure. Ethanol has a low potential to cause allergic skin reactions; however, undocumented cases of human skin sensitization have been reported.

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## 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

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. Wash clothing before reuse.

### Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

### Ingestion

Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal.

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

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## 5. FIRE-FIGHTING MEASURES

Flash point	93.50 °C , 200 °F Method: Tagliabue Closed Cup
Lower explosion limit	not determined
Upper explosion limit	not determined
Autoignition temperature	not determined

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#### **Suitable extinguishing media**

Use water spray or fog, foam, dry chemical or CO<sub>2</sub>.

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### **Further information**

Containers can build up pressure if exposed to heat (fire). Cool with water spray.

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## 6. ACCIDENTAL RELEASE MEASURES

#### **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**

Absorb spill with inert material, then place in a chemical waste container.

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## 7. HANDLING AND STORAGE

#### **Handling**

##### **Safe handling advice**

Use with adequate ventilation.

#### **Storage**

##### **Requirements for storage areas and containers**

Keep tightly closed in a dry and cool place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Engineering measures**

Ensure good ventilation during processing.

#### **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.

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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.

### Hygiene measures

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Color	white
Odor	odorless

### Safety data

pH	7 (1 % solution)
Boiling point/range	100 °C
Flash point	93.50 °C Method: Tagliabue Closed Cup
Autoignition temperature:	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapor pressure	not determined
Water solubility	miscible
Relative vapor density	Heavier than air
Solvents and Volatiles Data	% VOC (gm/l) 350

## 10. STABILITY AND REACTIVITY

Conditions to avoid	not applicable
Materials to avoid	strong acids, Alkalies., strong bases, strong oxidants
Hazardous decomposition products	not applicable
Hazardous reactions	Hazardous polymerisation does not occur.

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Further information

This product is stable under normal storage conditions.

### 11. TOXICOLOGICAL INFORMATION

Product Acute oral toxicity LD50 rat: 4400 mg/kg

### 12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

### 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.

### 14. TRANSPORT INFORMATION

#### Transport/further information

Not classified as dangerous in the meaning of transport regulations.

### 15. REGULATORY INFORMATION

#### Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

Water			
CAS-No.	7732-18-5		Percent (Wt./ Wt.)
NJTSR No.	56705700001-6307P		
CAS-No.	Trade Secret		Percent (Wt./ Wt.)

#### US Federal Regulations

##### OSHA

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

- None listed

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### 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:

- Acute Health 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:

- 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

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### 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)	Not listed/Not registered
• USA (TSCA)	Listed/registered
• Canada (DSL)	Not listed/Not registered
• Australia (AICS)	Not listed/Not registered
• Japan (MITI)	Not listed/Not registered
• Korea (TCCL)	Not listed/Not registered
• Philippines (PICCS)	Not listed/Not registered
• China	Not listed/Not registered

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### 16. OTHER INFORMATION

#### HMIS Ratings

Health :	2
Flammability :	1
Physical Hazard :	0

#### NFPA Ratings

Health :	2
Flammability :	1
Reactivity :	0

#### 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.

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