

# MATERIAL SAFETY DATA SHEET

## Protectosil® CHEM-TRETE® PB VOC

degussa.

Material no.		Version	2.2 / US
Specification	141228	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® CHEM-TRETE® PB VOC  
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.56705700001-5361P			
CAS-No.	Trade Secret		Percent (Wt./ Wt.)
Ethanol			
CAS-No.	64-17-5		Percent (Wt./ Wt.)
NJTSR No.56705700001-5318P			
CAS-No.	Trade Secret		Percent (Wt./ Wt.)

#### Other information

This material is classified as hazardous under OSHA regulations.

### 3. HAZARDS IDENTIFICATION

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

**Form-liquid**    **Color-clear**    **Odor-Strong odor.**

Flammable liquid and vapor.  
Vapors may cause flash fire or explosion.  
May cause eye/skin irritation.  
Causes respiratory tract irritation.

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**POTENTIAL HEALTH EFFECTS****Eye contact**

Irritating.

**Skin Contact**

Irritating.

**Inhalation**

Severely irritating.

**Ingestion**

No hazard expected in normal use.

**Chronic Health Hazard**

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. Undocumented reports suggest that this product may form a siloxane polymer on the eyes, lungs, or other mucous membranes. In the event of contact, get medical attention.

**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**

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	12.22 °C , 54 °F
	Method: Pensky-Martens C.C.

Lower explosion limit	3.5 %(V)
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Upper explosion limit	15 %(V)
OSHA Flammability Classification	Flammable liquid

#### Suitable extinguishing media

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

#### 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.

#### 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

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.

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

#### Storage

##### Requirements for storage areas and containers

Keep in a cool place.

Keep container tightly closed in a dry and well-ventilated place.

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

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure controls

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### • Ethanol

CAS-No.	64-17-5
Control parameters	1000 ppm
	1000 ppm
	1900 mg/m <sup>3</sup>
	1000 ppm
	1900 mg/m <sup>3</sup>

Time Weighted Average (TWA):(ACGIH)  
PEL:(OSHA Z1)

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA  
OEL)

### 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
Odor	Strong odor.

### Safety data

pH	not applicable
Boiling point/range	not applicable
Flash point	12.22 °C Method: Pensky-Martens C.C.
Lower explosion limit	3.5 %(V)
Upper explosion limit	15 %(V)
Vapor pressure	not applicable
Relative density	0.802

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Relative vapor density Heavier than air

Solvents and Volatiles Data

% VOC (gm/l) 600

**10. STABILITY AND REACTIVITY**

Conditions to avoid	Avoid high temperatures and sources of ignition.
Materials to avoid	Water, acids, oxidizing substances
Further information	Stable under normal conditions. Product will not undergo hazardous polymerization.

**11. TOXICOLOGICAL INFORMATION**

Product Acute oral toxicity	LD50 Rat: 7060 mg/kg Test substance: Ethanol
Product Acute inhalation toxicity	LD50 Rat: 20000 mg/l Test substance: Ethanol
Product Acute dermal toxicity	LD50 Rabbit: 20000 mg/kg Test substance: Ethanol
Product General Toxicity Information	The toxicological properties of this product have not been fully investigated.

**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. 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**

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Class	3
UN-No	1170
Packing group	II
Proper shipping name	ETHANOL SOLUTION

**Sea transport IMDG-Code**

Class	3
UN-No	1170
Packaging group	II
EmS	F-E, S-D
Proper technical name (Proper shipping name)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

**Air transport ICAO-TI/IATA-DGR**

Class	3
UN-No	1170
Packaging group	II
Proper technical name (Proper shipping name)	Ethanol solution

**Loading instructions/Remarks**

IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L

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**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:

- Acute Health Hazard
- Fire Hazard

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**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

**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         |
| • Australia (AICS)       | Listed/registered         |
| • Japan (MITI)           | Not listed/Not registered |
| • Korea (TCCL)           | Listed/registered         |
| • Philippines (PICCS)    | Listed/registered         |
| • China                  | Listed/registered         |
| • Canada (DSL)           | Not listed/Not registered |

**16. OTHER INFORMATION****HMIS Ratings**

Health :	2
Flammability :	3
Physical Hazard :	1

**NFPA Ratings**

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Health :	2
Flammability :	3
Reactivity :	1

**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.