

MATERIAL SAFETY DATA SHEET

Protectosil® CHEM-TRETE® PB 100



Material no.		Version	1.11 / US
Specification	151513	Revision date	01/04/2011
Order Number		Print Date	04/09/2012
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Protectosil® CHEM-TRETE® PB 100
CHEM-TRETE® PB 100

Use of the Substance /
Preparation : FOR PROFESSIONAL USE ONLY.

Company : Evonik Degussa Corporation USA
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

Telephone : 973-929-8000

Telefax : 973-929-8040

**US: CHEMTREC EMERGENCY
NUMBER** : 800-424-9300

**CANADA: CANUTEC
EMERGENCY NUMBER** : 613-996-6666

Product Regulatory Services : 973-929-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-liquid **Color-clear** **Odor-strong odor**

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

POTENTIAL HEALTH EFFECTS

Eye contact

Irritating.

Skin Contact

Irritating.

Inhalation

Severely irritating.

Ingestion

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No hazard expected in normal use.
May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

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. 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

NJTSR No.56705700001-6651P				
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	80 %	
NJTSR No.56705700001-5361P				
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	19.6 %	

Other information

This material is classified as hazardous under OSHA regulations.

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	50 °C , 122 °F
OSHA Flammability Classification	Combustible liquid

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Suitable extinguishing media

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

Specific hazards during fire fighting

Combustible 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. Use personal protective equipment.

Methods for cleaning up

Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Advice on protection against fire and explosion

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

Storage

Requirements for storage areas and containers

Keep away from heat. Keep away from sparks, flame and other sources of ignition.

Keep tightly closed in a dry, cool 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

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.

Hygiene measures

Handle in accordance with good hygiene and safety practices.

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

Avoid contact with skin.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Color	clear
Odor	strong odor

Safety data

pH	not determined
Boiling point/range	not determined
Flash point	50 °C
Relative vapor density	Heavier than air
Solvents and Volatiles Data	% VOC (gm/l) 375

10. STABILITY AND REACTIVITY

Conditions to avoid	Keep away from heat and sources of ignition.
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Materials to avoid	Water, oxidizing substances
Further information	Stable under normal conditions. Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity	NJTSR No.56705700001-6651P Trade Secret LD50 Rat: > 5000 mg/kg Own study
	NJTSR No.56705700001-5361P Trade Secret LD50 Rat: > 5110 mg/kg
Component Acute inhalation toxicity	NJTSR No.56705700001-6651P Trade Secret LC50 Rat: 5.88 mg/l / 4 h / Aerosol Own test result.
Component Acute dermal toxicity	NJTSR No.56705700001-6651P Trade Secret LD50 Rat: > 2000 mg/kg Own study
Product General Toxicity Information	No investigations were carried out with the preparation itself.

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.
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14. TRANSPORT INFORMATION

D.O.T. Road/Rail

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

Sea transport IMDG-Code

Class	3
UN-No	1993
Packaging group	III
EmS	F-E, S-E
Proper technical name (Proper shipping name)	FLAMMABLE LIQUID, N.O.S.
	(alkoxysilane)

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.
	(alkoxysilane)

Loading instructions/Remarks

IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L
CFR_RAIL	In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only.
CFR_ROAD	In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only.
IATA_C	Maximum Net Quantity per Package 220 L
IATA_P	Maximum Net Quantity per Package 60 L

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

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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

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 the Product Regulatory Services Department.

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

16. OTHER INFORMATION

HMIS Ratings

Health :	2
Flammability :	2
Physical Hazard :	1

NFPA Ratings

Health :	2
Flammability :	2
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.