

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	1 10 / 13

1. Identification**1.1. Product identifier**

Trade name Protectosil® CHEM-TRETE® PB 100

Chemical Name Protectosil® CHEM-TRETE® PB 100

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified FOR PROFESSIONAL USE ONLY.

1.3. Details of the supplier of the safety data sheetCompany Evonik Corporation
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

Telephone 973-929-8000

Telefax 973-929-8040

Email address Product-Regulatory-Services@evonik.com**1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:****CHEMTREC - US &
CANADA:** 800-424-9300**CHEMTREC MEXICO:** 01-800-681-9531**CHEMTREC
INTERNATIONAL:** +1 703-527-3887 (collect calls accepted)Product Regulatory 973-929-8060
Services:**2. Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 3	H226
Skin irritation	Category 2	H315

2.2. Label elementsStatutory basis Classification according to Regulation 29CFR 1910.1200
symbol(s)

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	2 10 / 13

Signal word	Warning
Hazard statement	H226 - Flammable liquid and vapor. H315 - Causes skin irritation.
Precautionary statement: Prevention	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P264 - Wash skin thoroughly after handling. P280 - Wear protective gloves/ eye protection/ face protection.
Precautionary statement: Reaction	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P363 - Wash contaminated clothing before reuse. P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
Precautionary statement: Storage	P403 + P235 - Store in a well-ventilated place. Keep cool.
Precautionary statement: Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

None known.

3. Composition / information on ingredients

• NJTSR No.56705700001-6651P		>= 60% - <= 100%
CAS-No.	Trade Secret	
Flammable liquids		Category 4
Skin irritation		Category 2
• NJTSR No.56705700001-5361P		>= 10% - < 30%
CAS-No.	Trade Secret	
Skin irritation		Category 2

Other information

The specific chemical identity and exact concentration has been withheld as a trade secret.

4. First aid measures**4.1. Description of 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

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	3 10 / 13

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.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

None known

4.3. Indication of any immediate medical attention and special treatment needed

None known.

5. Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Use water spray or fog, foam, dry chemical or CO₂.

Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

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

Burning will produce hazardous compounds including oxides of:
carbon.

5.3. Advice for firefighters

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**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and 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**7.1. Precautions for safe handling**

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.

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	4 10 / 13

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

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

Storage

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

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

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**8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Engineering measures**

Provide good ventilation or extraction.

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**9.1. Information on basic physical and chemical properties**

Physical state	liquid
Color	clear
Form	liquid
Odor	Characteristic odor.

Odor Threshold no data available

pH not determined

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	5 10 / 13

Melting point/range	no data available
Boiling point/range	not determined
Flash point	55 °C
Evaporation rate	no data available
Flammability (solid, gas)	No data available
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapor pressure	74 hPa (22 °C)
Vapor density	No data available
Relative vapor density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	no data available
Thermal decomposition	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available

9.2. Other information

Explosiveness Vapors can form explosive mixtures with air.

10. Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

Water, oxidizing substances

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	6 10 / 13

10.6. Hazardous decomposition products

Stable under normal conditions.

Product will not undergo hazardous polymerization.

11. Toxicological information**11.1. Information on toxicological effects**

carcinogenicity assessment Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

Further information No investigations were carried out with the preparation itself.

Toxicological information on components**NJTSR NO. 56705700001-6651P**

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC50 Rat: 5.88 mg/l / 4 h / Aerosol Method: OECD Test Guideline 403
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg Method: OECD Test Guideline 402
Skin irritation	Rabbit irritating Method: OECD Test Guideline 404
Eye irritation	Rabbit Not irritating. Method: OECD Test Guideline 405
Sensitization	Maximization test Guinea pig: Does not cause skin sensitization. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Rat / 28-day NOAEL: > 1000 mg/kg Method: OECD Test Guideline 407
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD TG 471
	Chromosome aberration test in vitro Chinese hamster (V 79 -cells) negative Method: OECD TG 473
	Chromosome aberration test in vitro Chinese hamster (CHO K1 -cells) negative Method: OECD TG 476
Gentoxicity in vivo	chromosomal aberration Mouse Oral negative Method: OECD TG 474

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	7 10 / 13

Toxicity to reproduction Animal model trials have produced no evidence of fertility damage.

NJTSR NO. 56705700001-5361P

Acute oral toxicity LD50 Rat: > 5110 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity LC0 Rat: 22 ppm / 4 h / vapor
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
maximum concentration in the test: no animals died.

Acute dermal toxicity LD50 Rabbit: 6730 mg/kg
Method: OECD Test Guideline 402

Skin irritation Rabbit
Skin irritation
Method: OECD Test Guideline 404

Eye irritation Rabbit
No eye irritation
Method: OECD Test Guideline 405

Sensitization maximization test Guinea pig: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Test substance: Structurally similar substance

Repeated dose toxicity Oral Rat / 28-day
NOAEL: 300 mg/kg
Method: OECD TG 422

Gentoxicity in vitro Ames test Salmonella typhimurium
negative
Method: OECD TG 471

chromosomal aberration Chinese hamster (CHO K1 -cells)
negative
Method: OECD TG 473

Genetic mutation in mammal cells TK +/- mouse lymphoma cell (L5178Y)
negative
Method: OECD TG 476

Carcinogenicity No data available

Toxicity to reproduction Screening for reproductive/developmental toxicity Oral Rat
Number of exposures: daily
NOAEL (No Observed Adverse Effect Level) of
parents:
Method: OECD TG 422
Screening for reproductive/developmental toxicity Oral Rat
Number of exposures: daily
NOAEL F1: 300 mg/kg

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	8 10 / 13



Method: OECD TG 422

12. Ecological information**12.1. Toxicity***no data available***12.2. Persistence and degradability**

Biodegradability no data available

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility no data available.

12.5. Other adverse effects

Further Information No ecotoxicological studies are available.

13. Disposal considerations**13.1. Waste treatment methods****Product**

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

Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information**D.O.T. Road/Rail**

- | | |
|---|---|
| 14.1. UN number: | UN 1993 |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. (alkoxysilane) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| 14.5. Environmental hazards (Marine pollutant): | -- |
| 14.6. Special precautions for user: | Yes |
- ROAD: In the U.S. this material may be classified as combustible liquid. Combustible liquids are (CFR) not regulated in packages 450 liters or less. This applies for shipments by road and rail only.

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	9 10 / 13

RAIL: In the U.S. this material may be classified as combustible liquid. Combustible liquids are (CFR) not regulated in packages 450 liters or less. This applies for shipments by road and rail only.

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 1993
- 14.2. UN proper shipping name: Flammable liquid, n.o.s.(alkoxysilane)
- 14.3. Transport hazard class(es): 3
- 14.4. Packing group: III
- 14.5. Environmental hazards: --
- 14.6. Special precautions for user: Yes
 - IATA-C: ERG-Code 3L
Maximum Net Quantity per Package 220 L
 - IATA-P: ERG-Code 3L
Maximum Net Quantity per Package 60 L

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 1993
- 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (alkoxysilane)
- 14.3. Transport hazard class(es): 3
- 14.4. Packing group: III
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: No
 - EmS: F-E, S-E
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

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

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	10 10 / 13

- 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

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health:	2
Flammability:	2
Physical Hazard:	1

NFPA Ratings

Health:	2
Flammability:	2
Reactivity:	1

16. Other information**Further information**

Revision date 04/21/2015

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

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	11 10 / 13

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	12 10 / 13

Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
C EPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic- mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DM EL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization for Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(E)C 50	LC50 or EC50
LOA EL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organization for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 100**

Material no.		Version	2.0 / US
Specification	151513	Revision date	04/21/2015
Order number		Print date	09/16/2015
		Page	13 10 / 13

VOC	Volatile organic compounds
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization