

SAFETY DATA SHEET

Protectosil[®] CHEM-TRETE[®] PB 350



Material no.	Version	1.3 / US
Specification	Revision date	07/25/2016
Order number	Print date	09/14/2016
	Page	1 10 / 13

1. Identification

1.1. Product identifier

Trade name Protectosil[®] CHEM-TRETE[®] PB 350

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified For industrial use
 Function Surface modifier
 Raw material

1.3. Details of the supplier of the safety data sheet

Company 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 Services: 973-929-8060

2. Hazards identification

2.1. Classification of the substance or mixture

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Flammable liquids	Category 3	H226
Skin irritation	Category 2	H315
Specific target organ toxicity - single exposure (Central nervous system)	Category 3	H336

2.2. Label elements

Statutory basis Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Symbol(s)

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	2 10 / 13

Signal word	Warning
Hazard statement	H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness.
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. P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 - Wash skin thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. 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. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor if you feel unwell. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P362 + P364 - Take off contaminated clothing and wash it 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 + P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
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.56705700001-5332P		>= 70% - < 90%
CAS-No.	Trade Secret	
Flammable liquids		Category 3
Skin irritation		Category 2
Specific target organ toxicity - single exposure (Central nervous system)		Category 3
• NJTSR No.56705700001-7348P		>= 10% - < 20%
CAS-No.	Trade Secret	
Skin irritation		Category 2

4. First aid measures**4.1. Description of first aid measures****General advice**

Take off all contaminated clothing immediately.

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	3 10 / 13

Inhalation

If aerosol or mists are formed:

Move victims into fresh air.

In case of persistent discomfort: Consult doctor immediately.

Skin contact

Wash off immediately with plenty of water.

Consult a doctor in the event of permanent skin irritation.

Eye contact

Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution.

In case of persistent discomfort: Consult an ophthalmologist.

Ingestion

Have the mouth rinsed with water.

Call a physician immediately.

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

If large amount of substance is absorbed, liberation of reaction product (methanol) can lead to symptoms of poisoning. Possible signs of poisoning include daze, dizziness, nausea, colicky abdominal pain or respiratory disturbance. Symptoms of increasing intoxication include dystopia or loss of eyesight.

Treatment may include immediate gastric lavage, antidote treatment or correction of acid-base balance.

Detection of the substance (methanol) is possible in blood. Evidence shows that the treatment of methanol absorption is enhanced through the administration of ethanol, which should be given to produce a blood level of at least 0.1%. Ethanol diminishes the production of toxic metabolites of methanol. Obtain treatment of allergic reaction if necessary.

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: water spray, foam, Carbon dioxide (CO₂), dry powder

Unsuitable extinguishing media: high volume water jet

5.2. Special hazards arising from the substance or mixture

Standard procedure for chemical fires.

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

5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from heat and sources of ignition.

6.2. Environmental precautions

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	4 10 / 13

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

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice

Remove sources of ignition and ventilate area.
Run off may create fire or explosion hazard in sewer.
Assure sufficient ventilation.

7. Handling and storage**7.1. Precautions for safe handling**

Wear personal protective equipment; see section 8. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.
Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation.

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

Take precautionary measures against static charges, keep away from sources of ignition.
Explosion protection equipment required.
Danger of explosion from residual product fumes; therefore avoid spark production through cutting, grinding, or welding work in the area of the container.
When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product.
This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Storage

Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.
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.
Hazardous components without workplace control parameters

8.2. Exposure controls

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	5 10 / 13

Engineering measures

Use this product preferably in a closed system, or use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne exposure.

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

Glove material for example, Nitrile rubber/ Nitrile latex (NBR)

Material thickness 0.35 mm

Break through time \geq 480 min

Glove material for example, Fluorinated rubber (FKM)

Material thickness 0.4 mm

Break through time \geq 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

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

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

Physical state	liquid
Color	colorless
Form	liquid
Odor	fruity
Odor Threshold	not determined
pH	not determined
Melting point/range	< -180 °C (1013 hPa)
Method:	OECD TG 102
Boiling point/range	150 °C (1013 hPa)
Method:	DIN 51 751

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	6 10 / 13

Flash point 45 °C
Method: DIN EN ISO 13736

Evaporation rate not determined

Lower explosion limit not determined

Upper explosion limit not determined

Vapor pressure ca. 3 hPa (20 °C)

Vapor density not determined

Density 7.66 g/cm³ (20 °C)
Method: DIN 51757

Water solubility Not miscible.
Decomposition by hydrolysis.

Partition coefficient: n-octanol/water log Pow: 2.1 (20 °C)
Method: QSAR

Autoignition temperature not determined

Thermal decomposition not determined

Viscosity, dynamic 0.8 mPa.s (20 °C)
Method: DIN 53 015

9.2. Other information

weight per gallon 2.69 lb/gal

Additional Information Volatile organic compounds (VOC) content

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 Reacts with water

10.4. Conditions to avoid

Vapors can form explosive mixtures with air. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Water, atmospheric humidity

10.6. Hazardous decomposition products

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	7 10 / 13

Methanol in case of hydrolysis.

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity	LD50 Rat: > 2000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	LC50 Rat: 11 mg/l / 4 h / dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Skin irritation	Rabbit Skin irritation Method: OECD Test Guideline 404
Eye irritation	Rabbit No eye irritation Method: OECD Test Guideline 405
Sensitization	Buehler 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 Test substance: Structurally similar substance
Repeated dose toxicity	Species: Rat Application Route: inhalation (vapor) Exposure duration: 90-day NOAEC: >= 2540 mg/m ³ Method: OECD TG 413 Test substance: Structurally similar substance
Assessment of STOT single exposure	Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
Assessment of STOT repeat exposure	no evidence for hazardous properties
Risk of aspiration toxicity	No evidence of aspiration toxicity
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD TG 471 chromosomal aberration V 79 cells negative Method: OECD TG 473 Test substance: Structurally similar substance gene mutation CHO-cells

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	8 10 / 13

	negative
	Method: OECD TG 476
	Test substance: Structurally similar substance
Gentotoxicity in vivo	Micronucleus test Mouse Oral
	negative
	Method: OECD TG 474
	Test substance: Structurally similar substance
Carcinogenicity	No evidence that cancer may be caused.
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	1 generation Oral Rat
	NOAEL (No Observed Adverse Effect Level) of parents: ≥ 1000 mg/kg
	NOAEL F1: ≥ 1000 mg/kg
	Method: OECD Test Guideline 415
	Test substance: Structurally similar substance

12. Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 Brachydanio rerio: > 100 mg/l / 96 h Method: OECD TG 203
Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 865 mg/l / 48 h Method: OECD TG 202
Toxicity to algae	EC50 Desmodesmus subspicatus (green algae): > 1170 mg/l / 72 h Method: OECD TG 201
	NOEC Desmodesmus subspicatus (green algae): 221 mg/l / 72 h Method: OECD TG 201
Toxicity to bacteria	EC 10 Pseudomonas putida: 1200 mg/l / 5 h Method: Bringmann und Kühn, Z. Wasser Abwasser Forsch. 10, 87-98 (1977) tested in the presence of emulsifiers
	EC50 local activated sludge: > 1000 mg/l / 3 h Method: OECD TG 209
	NOEC local activated sludge: ≥ 1000 mg/l / 3 h Method: OECD TG 209
Toxicity in terrestrial plants	EC50 Brassica alba: > 100 mg/kg / 336 h Method: OECD 208
	EC50 Triticum aestivum: > 100 mg/kg / 336 h Method: OECD 208
	EC50 Lepidium sativum: > 100 mg/kg / 336 h

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	9 10 / 13

Method: OECD 208

12.2. Persistence and degradability

Biodegradability Result: 47 % Not readily biodegradable.
Method: OECD TG 301 B

12.3. Bioaccumulative potential

Bioaccumulation low

12.4. Mobility in soil

Mobility Adsorption on the floor: low.

12.5. Other adverse effects

Further Information The data we have at our disposal do not necessitate identification concerning environmental hazard.

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

Waste must be disposed of in accordance with federal, state, provincial and local regulations.

Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied.

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

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.(Alkyltrialkoxysilane)
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 not regulated in packages 450 liters or less. This applies for shipments by road and rail only.
(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
(CFR)

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	10 10 / 13

only.

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 1993
14.2. UN proper shipping name: Flammable liquid, n.o.s. (Alkyltrialkoxysilane)
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.(Alkyltrialkoxysilane)
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

US. EPA Emergency Planning and Community Right -To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Remarks This material does not contain any components with a SARA 302 RQ.

SARA 304 - Emergency Release Notification

Remarks This material does not contain any components with a section 304 EHS RQ.

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	11 10 / 13

US. EPA CERCLA Hazardous Substance s (40 CFR 302)

Remarks This material does not contain any components with a CERCLA RQ.

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 Substance s

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

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	12 10 / 13

Further information

Revision date 07/25/ 2016

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

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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

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® PB 350**

Material no.		Version	1.3 / US
Specification	189594	Revision date	07/25/2016
Order number		Print date	09/14/2016
		Page	13 10 / 13

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