

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: Protectosil® CHEM-TRETE® PB 100**Other means of identification**

None.

Recommended restrictions**Recommended use:** For Industrial Use only as a surface modifier for Concrete and Porous Mineral Building Materials to prevent ingress of water.**Restrictions on use:** Not known.**Manufacturer/Importer/Distributor Information**

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Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)
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+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification**Physical Hazards**

Flammable liquids Category 4

Health Hazards

Skin Corrosion/Irritation Category 2

Environmental Hazards

Acute hazards to the aquatic environment Category 3

Unknown toxicity - Environment

Acute hazards to the aquatic environment 0 %

Chronic hazards to the aquatic environment 0 %

Label Elements**Hazard Symbol:**



Signal Word: Warning

Hazard Statement:
 Combustible liquid.
 Causes skin irritation.
 Harmful to aquatic life.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | Common name and synonyms | CAS number | Content in percent (%) [*] |
|-----------------------|--------------------------|--------------|-------------------------------------|
| Trialkoxyalkylsilane | Trade Secret | Trade Secret | 65 - 85% |
| Trialkoxyalkylsilane2 | Trade Secret | Trade Secret | 10 - 30% |

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of necessary 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.

| | |
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| Skin Contact: | Wash skin immediately with plenty of water for at least 15 minutes, while removing contaminated clothing and footwear. Seek medical assistance. Wash clothes before wearing them again. Destroy contaminated shoes or clean them thoroughly before wearing them again |
| 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. |
| Personal Protection for First-aid Responders: | No data available. |

Most important symptoms and effects, both acute and delayed

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|------------------|-------------|
| Symptoms: | Irritation |
| Hazards: | None known. |

Indication of immediate medical attention and special treatment needed

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|-------------------|------------------------|
| Treatment: | Treat symptomatically. |
|-------------------|------------------------|

5. Fire-fighting measures**Suitable (and unsuitable) extinguishing media**

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

Unsuitable extinguishing media: High volume water jet.

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.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: 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.

Special protective equipment for fire-fighters: No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ensure sufficient ventilation. Use personal protective equipment.

Accidental release measures: No data available.

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.

Environmental Precautions:

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

7. Handling and storage**Handling****Technical measures (e.g. Local and general ventilation):**

Provide good ventilation or extraction.

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 SDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Contact avoidance measures:

No data available.

Storage**Safe storage conditions:**

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

Safe packaging materials:

No data available.

8. Exposure controls/personal protection**Control Parameters****Occupational Exposure Limits**

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Provide good ventilation or extraction.

Individual protection measures, such as personal protective equipment

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| Eye/face protection: | Use chemical splash goggles or face shield. |
| Skin Protection | |
| Hand Protection: | Additional Information: Use impermeable gloves. |
| Skin and Body Protection: | Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used. |
| 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. |
| 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. |

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| 9. Physical and chemical properties |
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Information on basic physical and chemical properties
Appearance

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| Physical state: | liquid |
| Form: | liquid |
| Color: | Clear |
| Odor: | Fruity, ester-like |
| Odor Threshold: | No data available. |
| Freezing point: | No data available. |
| Boiling Point: | Not determined. |
| Flammability: | Not applicable |
| Upper/lower limit on flammability or explosive limits | |
| Explosive limit - upper: | Not determined. |
| Explosive limit - lower: | Not determined. |
| Flash Point: | 149 °F/65 °C (DIN EN ISO 2719) |
| Autoignition Temperature: | No data available. |
| Decomposition Temperature: | No data available. |
| pH: | Not determined. |
| Viscosity | |
| Dynamic viscosity: | No data available. |
| Kinematic viscosity: | No data available. |
| Flow Time: | No data available. |

Solubility(ies)

| | |
|---|----------------------|
| Solubility in Water: | No data available. |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Vapor pressure: | 74 hPa (72 °F/22 °C) |
| Relative density: | No data available. |
| Density: | No data available. |
| Bulk density: | No data available. |
| Relative vapor density: | No data available. |

Other information

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|--------------------------------------|---|
| Explosive properties: | Vapours may form explosive mixtures with air. |
| Minimum ignition temperature: | No data available. |
| Evaporation Rate: | No data available. |

10. Stability and reactivity

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| Reactivity: | No dangerous reaction known under conditions of normal use. |
| Chemical Stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | No dangerous reactions known. |
| Conditions to avoid: | Keep away from heat and sources of ignition. |
| Incompatible Materials: | Water. Oxidizing substances |
| Hazardous Decomposition Products: | No data available. |

11. Toxicological information**Information on toxicological effects****Information on likely routes of exposure**

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|----------------------|--------------------|
| Inhalation: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |
| Ingestion: | No data available. |

Acute toxicity (list all possible routes of exposure)

| | |
|-------------------|--|
| Oral | |
| Product: | Not classified for acute toxicity based on available data. |
| Dermal | |
| Product: | Not classified for acute toxicity based on available data. |
| Inhalation | |
| Product: | Not classified for acute toxicity based on available data. |

Repeated dose toxicity

| | |
|-----------------------|---|
| Product: | No data available. |
| Components: | |
| Trialkoxyalkylsilane | NOAEL (Rat(Female, Male), Oral, 28 d): > 1,000 mg/kg |
| Trialkoxyalkylsilane2 | NOAEL (Rat(Female, Male), Oral, 90 d, 7 days a week): 250 mg/kg |

Skin Corrosion/Irritation

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|-----------------------|--------------------------------|
| Product: | No data available. |
| Components: | |
| Trialkoxyalkylsilane | OECD 404 (Rabbit): Irritating. |
| Trialkoxyalkylsilane2 | OECD 404 (Rabbit): Irritating. |

Serious Eye Damage/Eye Irritation

| | |
|-----------------------|---------------------------------|
| Product: | No data available. |
| Components: | |
| Trialkoxyalkylsilane | Not irritating OECD 405 Rabbit: |
| Trialkoxyalkylsilane2 | Not irritating OECD 405 Rabbit: |

Respiratory or Skin Sensitization

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|-----------------------|--|
| Product: | No data available. |
| Components: | |
| Trialkoxyalkylsilane | Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer. |
| Trialkoxyalkylsilane2 | Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer. (analogy) |

Carcinogenicity

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|-----------------|--|
| Product: | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA. |
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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity**In vitro**

| | |
|-----------------------|---|
| Product: | No data available. |
| Components: | |
| Trialkoxyalkylsilane | gene mutation test (OECD 471): negative Chromosomal aberration (OECD 473): negative |
| Trialkoxyalkylsilane2 | gene mutation test (OECD 476): negative Ames test (OECD 471): negative Chromosomal aberration (OECD 473): negative gene mutation test (OECD 476): negative |

In vivo

| | |
|----------------------|--|
| Product: | No data available. |
| Components: | |
| Trialkoxyalkylsilane | Chromosomal aberration (OECD 474) Oral (Mouse, Female, Male): negative |

Reproductive toxicity

| | |
|--------------------|--------------------|
| Product: | No data available. |
| Components: | |

Product name: Protectosil® CHEM-TRETE® PB 100

| | |
|-----------------------|---|
| Trialkoxyalkylsilane | Animal testing did not show any effects on fertility. |
| Trialkoxyalkylsilane2 | no evidence of reproductiontoxic properties |

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Components:

| | |
|-----------------------|----------------|
| Trialkoxyalkylsilane | Not classified |
| Trialkoxyalkylsilane2 | Not classified |

Information on health hazards
Other hazards

Product: No toxicological tests have been conducted with the product itself.;

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|-----------------------------------|
| 12. Ecological information |
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Ecotoxicity:
Acute hazards to the aquatic environment:
Fish

Product: No data available.

Components:

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|-----------------------|---|
| Trialkoxyalkylsilane | LC 50 (Oncorhynchus mykiss, 96 h): 85 mg/l |
| Trialkoxyalkylsilane2 | In the range of water solubility not toxic under test conditions. |

Aquatic Invertebrates

Product: No data available.

Components:

| | |
|-----------------------|---|
| Trialkoxyalkylsilane | EC 50 (Daphnia magna, 48 h): > 49.1 mg/l |
| Trialkoxyalkylsilane2 | In the range of water solubility not toxic under test conditions. |

Toxicity to Aquatic Plants

Product: No data available.

Components:

| | |
|----------------------|--|
| Trialkoxyalkylsilane | EC 50 (Desmodesmus subspicatus (green algae), 96 h): > 100 mg/l (OECD 201) |
|----------------------|--|

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:
Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

| | |
|-----------------------|---|
| Trialkoxyalkylsilane2 | In the range of water solubility not toxic under test conditions. |
|-----------------------|---|

Toxicity to Aquatic Plants

Product: No data available.

Product name: Protectosil® CHEM-TRETE® PB 100**Components:**

Trialkoxyalkylsilane NOEC (Desmodesmus subspicatus (green algae), 96 h): ≥ 100 mg/l (OECD 201)

Toxicity to microorganisms

Product: No data available.

Persistence and Degradability**Biodegradation**

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential**Bioconcentration Factor (BCF)**

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil:

Product No data available.

Results of PBT and vPvB assessment:

Product No data available.

Other adverse effects:**Other hazards**

Product: No ecotoxicological studies are available.

Additional Information: No data available.

13. Disposal considerations

Disposal methods: 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.**

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

14. Transport information**Domestic regulation****49 CFR**

UN/ID/NA number : NA 1993
Proper shipping name : Combustible liquid, n.o.s.
(alkoxysilane)
Class : CBL
Packing group : III

Product name: Protectosil® CHEM-TRETE® PB 100

Labels : NONE
ERG Code : 128
Marine pollutant : no
Remarks : FOR USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible Liquid to the USA.

International Regulations**UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations
US. California Proposition 65

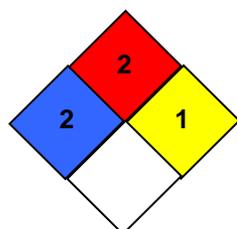
No ingredient requiring a warning under CA Prop 65.

16. Other information, including date of preparation or last revision
HMIS Hazard ID

| | |
|----------------------------|---------------------|
| Health | 2 |
| Flammability | 2 |
| Physical Hazards | Rating not possible |
| PERSONAL PROTECTION | B |

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID


| | |
|--|-----------------|
| | Flammability |
| | Health |
| | Reactivity |
| | Special hazard. |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 03/25/2019

Version #: 2.0

Further Information: No data available.

Revision Information

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

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