

SAFETY DATA SHEET**Protectosil® AQUA-TRETE CONCENTRATE**

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 4.0 / US |
| Specification | 141211 | Revision date | 05/08/2015 |
| Order number | | Print date | 09/16/2015 |
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1. Identification**1.1. Product identifier**

| | |
|---------------|-------------------------------------|
| Trade name | Protectosil® AQUA-TRETE CONCENTRATE |
| Chemical Name | Protectosil® AQUA-TRETE CONCENTRATE |

1.2. Recommended use of the chemical and restrictions on use

| | |
|----------------------------------|--------------------|
| Relevant applications identified | For industrial use |
|----------------------------------|--------------------|

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**

Classification according to Regulation 29CFR 1910.1200

| | | |
|-------------------|------------|------|
| Flammable liquids | Category 3 | H226 |
| Skin irritation | Category 2 | H315 |

2.2. Label elements

| | |
|-----------------|--|
| Statutory basis | Classification according to Regulation 29CFR 1910.1200 |
|-----------------|--|

hazard-defining component(s) (GHS)

- Trimethoxypropylsilane
- Symbol(s)



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| | |
|-------------------------------------|--|
| 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. P362 - Take off contaminated clothing and wash 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.56705700001-5374P | | >= 60% - <= 100% |
| CAS-No. | Trade Secret | |
| Flammable liquids | | Category 3 |
| Skin irritation | | Category 2 |
| • Methanol >= 0.1% - < 1% | | |
| CAS-No. | 67-56-1 | |
| Flammable liquids | | Category 2 |
| Acute toxicity (Oral) | | Category 3 |
| Acute toxicity (Inhalation) | | Category 3 |
| Acute toxicity (Dermal) | | Category 3 |
| Specific target organ toxicity - single exposure | | Category 1 |

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

Flush skin with plenty of water. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.

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Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

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

Hazards

None known

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

After absorbing large amounts of substance: Administration of activated charcoal: Acceleration of gastrointestinal passage.

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

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

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Flammable 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 fire fighters

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.

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**

Ensure adequate ventilation.

6.2. Environmental precautions

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**

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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. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

Use non-sparking equipment when the level of vapors and/or mists can exceed the explosive limit, especially in areas with poor ventilation. Wear personal protective equipment; see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

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.

Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage

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

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

| • Methanol | | |
|--------------------|-----------------------------------|--|
| CAS-No. | 67-56-1 | |
| Control parameters | 200 ppm | Time Weighted Average (TWA):(ACGIH) |
| Control parameters | 250 ppm | Short Term Exposure Limit (STEL):(ACGIH) |
| Control parameters | | Skin designation:(ACGIH) |
| | Can be absorbed through the skin. | |
| Control parameters | 200 ppm 260 mg/m3 | Permissible exposure limit:(OSHA Z1) |
| Control parameters | 200 ppm 260 mg/m3 | Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL) |
| Control parameters | 1000 ppm | Ceiling Limit Value:(US CA OEL) |
| Control parameters | 250 ppm 325 mg/m3 | Short Term Exposure Limit (STEL):(US CA OEL) |
| Control parameters | | Skin designation:(US CA OEL) |
| | Can be absorbed through the skin. | |
| Control parameters | 200 ppm 260 mg/m3 | Time Weighted Average (TWA):(TN OEL) |
| Control parameters | 250 ppm 325 mg/m3 | Short Term Exposure Limit (STEL):(TN OEL) |
| Control parameters | | Skin designation:(TN OEL) |

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Can be absorbed through the skin.

8.2. Exposure controls**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

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

| | |
|---------------------------|---|
| Physical state | liquid |
| Color | clear |
| Form | liquid |
| Odor | aromatic |
| Odor Threshold | no data available |
| pH | not determined |
| Melting point/range | no data available |
| Boiling point/range | 137 °C |
| Flash point | 33.89 °C Method: Pensky-Martens C.C. |
| Evaporation rate | no data available |
| Flammability (solid, gas) | no data available |
| Lower explosion limit | not determined |
| Upper explosion limit | not determined |
| Vapor pressure | not applicable |

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| | |
|--|--|
| Relative density | 0.93 |
| Water solubility | negligible reacts slowly with water |
| 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. | |
| | % VOC (gm/l) | 50 |

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

A void high temperatures and sources of ignition.

10.5. Incompatible materials

A void contact with acids and oxidizing agents., Water

10.6. Hazardous decomposition products

Silicone polymers., Methanol in case of hydrolysis.

Stable under normal conditions.

Product will not undergo hazardous polymerization.

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

| | |
|---------------------------|---------------------------------------|
| Acute oral toxicity | LD50 Rat: > 5170 mg/kg |
| | Method: OECD Test Guideline 401 |
| Acute inhalation toxicity | LC50 Rat: 22.2 mg/l / 4 h / dust/mist |

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| | | |
|------------------------------------|---|--|
| | Method: | OECD Test Guideline 403 |
| Acute dermal toxicity | | No data available |
| 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(male and female) Number of exposures: 7 days a week NOAEL: 60.5 mg/kg Method: OECD TG 422 Test substance: Structurally similar substance Molecular Weight corrected | |
| Assessment of STOT single exposure | Assessment: | The substance or mixture is not classified as specific target organ toxicant, single exposure. |
| Assessment of STOT repeat exposure | Assessment: | The substance or mixture is not classified as specific target organ toxicant, repeated exposure. |
| Risk of aspiration toxicity | | No aspiration toxicity classification |
| Gentoxicity in vitro | Ames test Salmonella typhimurium negative Method: OECD TG 471 | |
| | gene mutation Chinese hamster (CHO K1 -cells) negative Method: OECD TG 476 Test substance: Structurally similar substance | |
| | chromosomal aberration negative Method: OECD TG 473 Test substance: Structurally similar substance | |
| Gentoxicity in vivo | Micronucleus test Mouse Oral negative Method: OECD TG 474 Test substance: Structurally similar substance | |
| Carcinogenicity | | No evidence that cancer may be caused. |
| Toxicity to reproduction | 1 generation Oral Rat Number of exposures: daily NOAEL (No Observed Adverse Effect Level) of 750 mg/kg | |

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parents:
NOAEL F1: 750 mg/kg
Method: OECD Test Guideline 415
Test substance: Structurally similar substance
Molecular Weight corrected

Prenatal development toxicity study Oral Rat

Number of exposures: daily
NOAEL (No Observed Adverse Effect Level) of 750 mg/kg

parents:
NOAEL F1: 750 mg/kg
Method: OECD TG 414
Test substance: Structurally similar substance
Molecular Weight corrected

Screening for reproductive/ developmental toxicity Oral Rat

Number of exposures: daily
NOAEL (No Observed Adverse Effect Level) of 1210 mg/kg

parents:
NOAEL F1: 1210 mg/kg
Method: OECD TG 422
Test substance: Structurally similar substance
Molecular Weight corrected

12. Ecological information**12.1. Toxicity**

Toxicity to fish 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**

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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. (alkyl silane, contains methanol) |
| 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 |

Air transport ICAO-TI/IATA-DGR

- | | |
|-------------------------------------|--|
| 14.1. UN number: | UN 1993 |
| 14.2. UN proper shipping name: | Flammable liquid, N.O.S. (alkyl silane, contains methanol) |
| 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. (alkyl silane, contains methanol) |
| 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:

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- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Methanol
CAS-No. 67-56-1

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:

- Fire Hazard
- Acute Health 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

A warning under the California Drinking Water Act is required only if listed below:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

- Methanol
CAS-No. 67-56-1

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

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HMIS Ratings

| | |
|-------------------|---|
| Health : | 1 |
| Flammability : | 3 |
| Physical Hazard : | 1 |

NFPA Ratings

| | |
|----------------|---|
| Health : | 1 |
| Flammability : | 3 |
| Reactivity : | 1 |

16. Other information**Further information**

Revision date 05/08/2015

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

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Legend

| | |
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| 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 |

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