

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** Protectosil® AQUA-TRETE® 40**Chemical name:**  
AQUA-TRETE® BSM-40**Other means of identification**

None.

**Recommended restrictions****Recommended use:** For industrial use**Restrictions on use:** Not known.**Manufacturer/Importer/Distributor Information**Company Name : Evonik Corporation  
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Parsippany, NJ 07054  
USA

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E-mail : product-regulatory-services@evonik.com

**Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US &amp; CANADA)

Emergency : 800 681 9531 (CHEMTREC MEXICO)  
+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

**Hazard Classification****Health Hazards**

Skin Corrosion/Irritation Category 2

**Environmental Hazards**

Chronic hazards to the aquatic environment Category 2

**Label Elements****Hazard Symbol:**

**Signal Word:** Warning**Hazard Statement:**  
Causes skin irritation.  
Toxic to aquatic life with long lasting effects.**Precautionary Statements****Prevention:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing. Collect spillage.**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.**Hazard(s) not otherwise classified (HNOC):** None.**3. Composition/information on ingredients****Chemical name:**  
AQUA-TRETE® BSM-40**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Triethoxy(octyl)silane		2943-75-1	10 - 30%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration 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.**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.

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<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal. If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.
<b>Personal Protection for First-aid Responders:</b>	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**Most important symptoms/effects, acute and delayed**

<b>Symptoms:</b>	None known.
<b>Hazards:</b>	No data available.

**Indication of immediate medical attention and special treatment needed**

<b>Treatment:</b>	None known.
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**5. Fire-fighting measures****Suitable (and unsuitable) extinguishing media**

<b>Suitable extinguishing media:</b>	Use water spray or fog, foam, dry chemical or CO <sub>2</sub> .
<b>Unsuitable extinguishing media:</b>	High volume water jet.

<b>Specific hazards arising from the chemical:</b>	No data available.
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**Special protective equipment and precautions for firefighters**

<b>Special fire fighting procedures:</b>	Containers can build up pressure if exposed to heat (fire). Cool with water spray.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. Accidental release measures**

<b>Personal precautions, protective equipment and emergency procedures:</b>	Wear personal protective equipment; see section 8.
<b>Methods and material for containment and cleaning up:</b>	Absorb spill with inert material, then place in a chemical waste container.
<b>Environmental Precautions:</b>	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

**Technical measures (e.g. Local and general ventilation):** No data available.

**Safe handling advice:** Use only in well-ventilated areas. Wear personal protective equipment; see section 8.

**Contact avoidance measures:** No data available.

**Hygiene measures:** No data available.

### Storage

**Safe storage conditions:** Keep tightly closed in a dry and cool place. Normal measures for preventive fire protection.

**Safe packaging materials:** No data available.

**Storage Temperature:** No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethanol	STEL	1,000 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	1,000 ppm 1,900 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	1,000 ppm 1,900 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

None of the components have assigned exposure limits.

**Appropriate Engineering Controls** No data available.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Use chemical splash goggles or face shield.

#### Skin Protection

**Hand Protection:** Additional Information: Use impermeable gloves.

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**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.

**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.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	7 (1 % solution)
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	100 °C
<b>Flash Point:</b>	95 °C (Tagliabue Closed Cup)
<b>Evaporation Rate:</b>	Not determined.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive limit - upper:</b>	Not determined.
<b>Explosive limit - lower:</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Relative vapor density:</b>	Heavier than air
<b>Density:</b>	0.96 g/cm <sup>3</sup>
<b>Relative density:</b>	No data available.
<b>Solubility in Water:</b>	Miscible with water.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Self Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	No data available.

### Other information

<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>Minimum ignition temperature:</b>	Not determined.

## 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

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<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	No specific hazards are known.
<b>Incompatible Materials:</b>	Alkalies. strong bases strong oxidants strong acids
<b>Hazardous Decomposition Products:</b>	Ethanol in case of hydrolysis.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Dermal</b>	
<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Inhalation</b>	
<b>Product:</b>	Not classified for acute toxicity based on available data.

#### Repeated dose toxicity

**Product:** No data available.

**Components:**

Triethoxy(octyl)silane  
NOAEL (Rat, Oral): 300 mg/kg  
NOAEC (Rat, Inhalation, 5 days/weeks, 6 hours/day): 3000 mg/m<sup>3</sup> tested substance: Structurally similar substance

#### Skin Corrosion/Irritation

**Product:** No data available.

**Components:**

Triethoxy(octyl)silane      OECD 404 (Rabbit): Irritating.

**Serious Eye Damage/Eye Irritation**

**Product:**                      No data available.

**Respiratory or Skin Sensitization**

**Product:**                      No data available.

**Components:**

Triethoxy(octyl)silane      Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer. tested substance: Structurally similar substance

**Carcinogenicity**

**Product:**                      Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

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:**

Triethoxy(octyl)silane      Ames test (OECD 471): negative  
Chromosomal aberration (OECD 473): negative  
gene mutation test (OECD 476): negative

**In vivo**

**Product:**                      No data available.

**Reproductive toxicity**

**Product:**                      No data available.

**Components:**

Triethoxy(octyl)silane      no evidence of reproductiontoxic properties

**Specific Target Organ Toxicity - Single Exposure**

**Product:**                      No data available.

**Components:**

Triethoxy(octyl)silane      no evidence for hazardous properties

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:**                      No data available.

**Components:**

Triethoxy(octyl)silane      no evidence for hazardous properties

**Aspiration Hazard**

**Product:**                      No data available.

**Product name: Protectosil® AQUA-TRETE® 40****Components:**

Triethoxy(octyl)silane Not classified

**Other effects:**

No data available.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Components:**

Triethoxy(octyl)silane LC 50 (Oncorhynchus mykiss, 96 h): &gt; 0.055 mg/l

**Aquatic Invertebrates****Product:** No data available.**Components:**

Triethoxy(octyl)silane EC 50 (Daphnia magna, 48 h): &gt; 0.049 mg/l

**Toxicity to Aquatic Plants****Product:** No data available.**Specified substance(s):**

Triethoxy(octyl)silane EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): &gt; 0.13 mg/l (OECD 201)

**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Components:**

Triethoxy(octyl)silane EC 10 (Daphnia magna, 21 d): 0.189 mg/l

**Toxicity to Aquatic Plants****Product:** No data available.**Specified substance(s):**

Triethoxy(octyl)silane NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 0.13 mg/l (OECD 201)

**Persistence and Degradability****Biodegradation****Product:** No data available.**BOD/COD Ratio****Product:** No data available.

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**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: Not determined.**Mobility in soil:** No data available.**Other adverse effects:** No ecotoxicological studies are available. An Expert Judgment stated that no classification is necessary based on present knowledge.**13. Disposal considerations****Disposal methods:** Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.**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**

Not regulated as a dangerous good

**Remarks** : Not dangerous according to transport regulations.**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.

**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.

**Product name: Protectosil® AQUA-TRETE® 40**
**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**

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. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

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.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

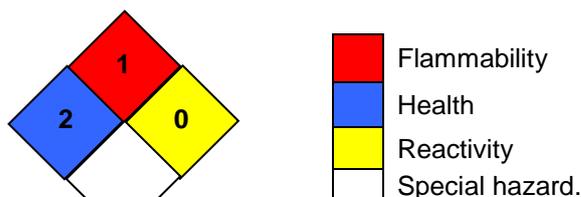
**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

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

<b>Health</b>	2
<b>Flammability</b>	1
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	

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

**NFPA Hazard ID**

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

**Issue Date:** 10/21/2020

**Version #:** 1.2

**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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