

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: Protectosil® Stone Sealer & Consolidation Treatment

Other means of identification

None.

Recommended restrictions

Recommended use: Waterproofing agent surface treatment agent

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
USA

Telephone : +1 732 981 5000

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

Emergency telephone number:

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

Emergency : 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 4

Health Hazards

Skin Corrosion/Irritation Category 1

Serious Eye Damage/Eye Irritation Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Product name: Protectosil® Stone Sealer & Consolidation Treatment
Hazard Statement:

Combustible liquid.
 Causes severe skin burns and eye damage.

Precautionary Statements
Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames. - No smoking.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool. Store locked up.

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):

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/information on ingredients
Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Silanetriol, 1-alkyl, potassium salt	Trade Secret	Trade Secret	1 - 5%

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

Composition Comments: Aqueous Solution

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
General information:

Remove contaminated or saturated clothing immediately and follow safe disposal procedures.

Product name: Protectosil® Stone Sealer & Consolidation Treatment

Inhalation:	If aerosol or mists are formed: Possible discomfort: severe irritation of mucous lining (nose, throat, eyes), cough, sneezing, flow of tears Move to fresh air. If breathing difficulties occur: Keep patient half sitting with upper body raised. Get medical attention immediately.
Skin Contact:	Immediately wash with soap and water for at least fifteen minutes. Remove contaminated clothing and shoes. Obtain medical attention. Thoroughly wash clothing and shoes before reuse.
Eye contact:	With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Continue rinsing process with eye rinsing solution. Protect unharmed eye. Call ambulance. (Cue: caustic burn of the eyes) Immediate further treatment in ophthalmic hospital/ ophthalmologist. Continue rinsing eye until arrival at ophthalmic hospital.
Ingestion:	Do NOT induce vomiting. Only when patient fully conscious: Have the mouth rinsed with water. Have patient drink plenty of water in small sips. Notify ambulance immediately (keyword: chemical burn).
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	No data available.
Hazards:	Corrosive

Indication of immediate medical attention and special treatment needed

Treatment:	If substance has been swallowed, apply therapy for chemical burn. Early endoscopy is recommended in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, suck away left over substances.
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5. Fire-fighting measures**Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture: The product itself does not burn. May be released in case of fire: toxic gases/vapours. Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

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:

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Use personal protective equipment.

Accidental release measures:

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

Methods and material for containment and cleaning up:

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

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):

If possible, use material transfer/filling, metering and blending plants that are closed. If contact with gases or vapours cannot be excluded: Provide good ventilation or extraction.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and amendments (CE certification). If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Use protective clothing / face shield if necessary. Do not breathe in vapours or aerosols. Avoid contact with skin and eyes. Provide sufficient ventilation and exhaust at the workplace. Ventilators required at emission site. Do not breathe in vapours, aerosols, sprays.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Store dry. Close container tightly. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. 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 SDS/label precautions even after container is emptied because it may retain product residues.

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

If possible, use material transfer/filling, metering and blending plants that are closed. If contact with gases or vapours cannot be excluded: Provide good ventilation or extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Use chemical splash goggles or face shield.

Skin Protection

Hand Protection:

Material: Butyl rubber.
 Break-through time: >= 480 min
 Material: Fluorinated rubber (Viton)
 Break-through time: >= 480 min
 Additional Information: Selection of protective gloves to meet the requirements of specific workplaces., The suitability for a specific workplace should be discussed with the producers of the protective gloves., The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Additional Information: 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., Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required.

Skin and Body Protection:

When handling larger quantities: chemical protective suit, disposable protective clothing, acid-proof A safety shower and eye wash fountain must be readily available. To identify additional Personal Protective Equipment requirements, it is recommended that a hazard assessment 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.

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. Wash contaminated clothing before reuse.

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

Physical state:	liquid
Form:	liquid
Color:	Colorless to light yellow, Clear
Odor:	Odorless
Odor Threshold:	Not applicable

Product name: Protectosil® Stone Sealer & Consolidation Treatment

Freezing point:	No data available.
Boiling Point:	221 °F/105 °C (1,013 hPa) (ASTM D-1120)
Flammability:	Not determined.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not determined.
Explosive limit - lower:	Not determined.
Flash Point:	142 °F/61 °C
Auto-ignition temperature:	No data available.
Decomposition Temperature:	Not determined.
pH:	> 13 (25 °C)
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No information available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	Not applicable
Relative density:	1.03
Density:	Not available.
Bulk density:	No data available.
Relative vapor density:	No data available.
Other information	
Explosive properties:	No data available.
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Minimum ignition temperature:	Not determined.
Evaporation Rate:	Not determined.

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Exothermic reaction with: acids
Conditions to avoid:	None known.
Incompatible Materials:	acids
Hazardous Decomposition Products:	None known.

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

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: Based on available data, the classification criteria are not met.
ATEmix: 113,333.33 mg/kg

Dermal

Product: Based on available data, the classification criteria are not met.
Not classified for acute toxicity based on available data.

Inhalation

Product: Based on available data, the classification criteria are not met.
Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Components:

Silanetriol, 1-alkyl, potassium salt
NOAEL (Rat(Female, Male), Oral, 90 day, daily): 50 mg/kg (analogy)

Skin Corrosion/Irritation

Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation

Product: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: No data available.

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:

Product name: Protectosil® Stone Sealer & Consolidation Treatment

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Silanetriol, 1-alkyl, potassium salt
 NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus), 72 h): >= 913 mg/l (OECD 201) (analogy)

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 A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

Other adverse effects:
Other hazards

Product: No further information available

Additional Information: No ecotoxicological studies are available on the mixture.

13. Disposal considerations

Disposal methods: 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.

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 : UN 1814
Proper shipping name : Potassium hydroxide, solution

Class : 8
Packing group : III
Labels : 8
ERG Code : 154
Marine pollutant : no

International Regulations**IATA-DGR**

UN/ID No. : UN 1814
Proper shipping name : Potassium hydroxide solution
Class : 8
Packing group : III
Labels : 8
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852
Remarks : ERG-Code 8L

IMDG-Code

UN number or ID number : UN 1814
Proper shipping name : POTASSIUM HYDROXIDE SOLUTION

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : no
Remarks : Keep separate from acids.

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.

Product name: Protectosil® Stone Sealer & Consolidation Treatment
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.
 None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
Chemical Identity

POTASSIUM HYDROXIDE

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

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Hazards Not Otherwise Classified (HNOC)

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)
Chemical Identity

POTASSIUM HYDROXIDE

US State Regulations
US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

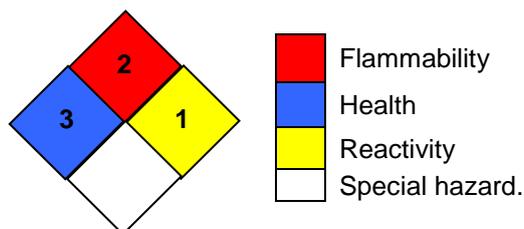
Inventory Status:

Canada DSL Inventory List:	Not in compliance with the inventory.	
US TSCA Inventory:	On or in compliance with the inventory	Commercial Status: Active

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

Health	3
Flammability	2
Physical Hazards	1
PERSONAL PROTECTION	

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: 10/15/2019

Version #: 1.1

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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