1. Identification

1.1. Product identifier

Trade name: Protectosil® WS 808

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified: additive for construction material
Waterproofing agent
surface treatment agent

1.3. Details of the supplier of the safety data sheet

Company: Evonik Corporation USA
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 4	H227
Skin corrosion	Category 1A	H314
Serious eye damage	Category 1	H318

2.2. Label elements

Statutory basis: Classification according to Regulation 29CFR 1910.1200

hazard-defining component(s) (GHS)

- Tripotassium propylsilanetriolate
- Potassium hydroxide

Symbol(s)	
Signal word	Danger
Hazard statement	H227 - Combustible liquid. H314 - Causes severe skin burns and eye damage.
Precautionary statement: Prevention	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 - Wash skin thoroughly after handling. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary statement: Reaction	P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/ physician. P363 - Wash contaminated clothing 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. 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

Chemical nature
Aqueous solution

• **Tripotassium propylsilanetriolate**	< 50%	
CAS-No. 93857-00-2		
Skin corrosion		Category 1A
• **Potassium hydroxide**	< 5%	
CAS-No. 1310-58-3		
Acute toxicity (Oral)		Category 4
Skin corrosion		Category 1A
Serious eye damage		Category 1
• **NJTSR No.56705700001-7204P**	<= 30%	
CAS-No. Trade Secret		
Remarks	Not a hazardous substance or mixture.	

4. First aid measures

4.1. Description of first aid measures

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

Inhalation
If aerosol or mists are formed, take affected persons out into the fresh air. Possible discomfort include severe irritation of mucous lining (nose, throat, eyes), cough, sneezing and flow of tears. Call a physician immediately.
If breathing difficulties occur:
Keep patient half sitting with upper body raised.

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
Rinse eye thoroughly immediately with plenty of water for at least 10 minutes. Continue rinsing process with eye rinsing solution. Protect uninjured eye. For caustic burn of the eyes, call an ambulance and obtain immediate medical treatment from an ophthalmologist.

Ingestion
If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

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

Symptoms
None known

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

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.

5. Fire-fighting measures

5.1. 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.

5.2. 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.

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, 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. Use personal protective equipment.

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

6.3. Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible absorbent materials, (e.g. sand, earth, diatomaceus earth, vermiculite) and place in a polyethylene-lined 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
Provide sufficient ventilation and exhaust at the workplace. Ventilators required at emission site. Do not breathe in vapours, aerosols, sprays.

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
Store dry. Close container tightly

Unsuitable materials Light metals

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

Advice on common storage
Do not store near acids.

8. Exposure controls/personal protection

8.1. Control parameters

- **Potassium hydroxide**

CAS-No.	1310-58-3	
Control parameters	2 mg/m3	Ceiling Limit Value:(ACGIH)
Control parameters	2 mg/m3	Ceiling Limit Value:(US CA OEL)

8.2. Exposure controls

Engineering measures

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.

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, butyl-rubber
Material thickness	0.5 mm
Break through time	>= 480 min
Glove material	for example, Fluorinated rubber (Viton)
Material thickness	0.4 mm
Break through time	>= 480 min

Selection of protective gloves to meet the requirements of specific workplaces.
Suitability for specific workplaces should be clarified with protective glove manufacturers.
The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.
Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374.
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.

Eye protection

Use chemical splash goggles or face shield.

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.

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.

Protective measures
Handle in accordance with good industrial hygiene and safety practice.
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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

physical state	liquid	
Colour	Colourless to light yellow, clear	
Form	liquid	
Odour	odourless	
Odour Threshold	not determined	
pH	> 13	(25 °C)
Melting point/range	no data available	
Boiling point/range	105 °C	(1013 hPa)
	Method:	ASTM D-1120
Flash point	> 61 °C	
	Method:	DIN EN ISO 2719 (Pensky-Martens, Closed Cup)
Evaporation rate	not determined	
Flammability (solid, gas)	not determined	
Lower explosion limit	not determined	
Upper explosion limit	not determined	
Vapour density	no data available	
Density	1.4 g/cm3	
	Method:	DIN 51757
Water solubility	no data available	
Partition coefficient: n-octanol/water	not determined	
Autoignition temperature	not determined	
Thermal decomposition	not determined	
Viscosity, dynamic	not determined	
Viscosity, kinematic	no data available	

9.2. Other information

no data available

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: Exothermic reaction with: acids

10.4. Conditions to avoid
None known

10.5. Incompatible materials
Acids

10.6. Hazardous decomposition products
None known

11. Toxicological information

11.1. Information on toxicological effects

Skin irritation	corrosive
Eye irritation	corrosive
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Further information	No data is available on the product itself.

Toxicological information on components

Tripotassium propylsilanetriolate

Acute oral toxicity	LD50 Rat: > 5170 mg/kg Method: OECD Test Guideline 401 Test substance: Structurally similar substance
Acute inhalation toxicity	LC50 Rat: > 22.2 mg/l / 4 h / Aerosol Method: OECD Test Guideline 403
Sensitization	Buehler Test Guinea pig: No sensitizing effects. Method: OECD Test Guideline 406

Potassium hydroxide

Acute oral toxicity	LD50 Rat: 333 - 388 mg/kg Method: OECD TG 425

Skin irritation	Rabbit Causes severe burns.
Eye irritation	Rabbit Irreversible effects on the eye
Sensitization	skin sensitization Guinea pig: Does not cause skin sensitisation.
Gentoxicity in vitro	S. typhimurium / E. coli negative Method: OECD TG 471

12. Ecological information

12.1. Toxicity

No ecotoxicological studies are available on the mixture.

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: An Expert Judgment stated that no classification is necessary based on present knowledge.

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

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

If there is product residue in the emptied container, follow directions for handling on the container's label.

Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

14. Transport information

D.O.T. Road/Rail

14.1.	UN number:	UN 3266
14.2.	UN proper shipping name:	Corrosive liquid, basic, inorganic, n.o.s.(Tripotassium propylsilanetriolate, Potassium hydroxide)
14.3.	Transport hazard class(es):	8
14.4.	Packing group:	II
14.5.	Environmental hazards (Marine pollutant):	--
14.6.	Special precautions for user:	No

Air transport ICAO-TI/IATA-DGR

14.1.	UN number:	UN 3266
14.2.	UN proper shipping name:	Corrosive liquid, basic, inorganic, n.o.s.(Tripotassium propylsilanetriolate, Potassium hydroxide)
14.3.	Transport hazard class(es):	8
14.4.	Packing group:	II
14.5.	Environmental hazards:	--
14.6.	Special precautions for user:	No

Sea transport IMDG-Code/GGVSee (Germany)

14.1.	UN number:	UN 3266
14.2.	UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(Tripotassium propylsilanetriolate, Potassium hydroxide)
14.3.	Transport hazard class(es):	8
14.4.	Packing group:	II
14.5.	Environmental hazards (Marine pollutant):	--
14.6.	Special precautions for user:	Yes
	EmS:	F-A,S-B

IMDG Code segregation group 18 - Alkalis
Clear of living quarters.
Keep separate from acids.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transportapproval 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

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:

- Acute Health Hazard
- Fire Hazard

SARA Title III Section 313 Reportable Substances

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

California Proposition 65

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

- None listed

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 :	3
Flammability :	2
Physical Hazard :	1

NFPA Ratings

Health :	3
Flammability :	2
Reactivity :	1

16. Other information

Further information

Revision date 05/28/2015

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 Hygenists
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
CEPA	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
DMEL	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)C50	LC50 or EC50
LOAEL	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	Organisation 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