# Protectosil® WS 670

 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 1 / 10



### 1. Identification

### 1.1. Product identifier

Trade name Protectosil® WS 670

#### 1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified For industrial use Function Waterproofing 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 +1 703-527-3887 (collect calls accepted)

INTERNATIONAL:

Product Regulatory

973-929-8060

Services

# 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Skin irritationCategory 2H315Eye irritationCategory 2AH319

### 2.2. Label elements

Statutory basis Symbol(s)

Classification according to Regulation 29CFR 1910.1200



# Protectosil® WS 670

Material no.

Specification

Order Number





Warning Signal word

168567

Hazard statement H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statement:

P264 - Wash skin thoroughly after handling. Prevention P280 - Wear eye protection/ face protection.

P280 - Wear protective gloves.

Precautionary statement:

P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. Reaction

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P337 + P313 - If eye irritation persists: Get medical advice/ attention. P362 - Take off contaminated clothing and wash before reuse.

#### Other hazards 2.3.

None known.

#### 3. Composition/information on ingredients

Triethoxy(octyl)silane	>= 20%
CAS-No. 2943-75-1 Skin irritation	Category 2
• Isotridecanol, ethoxylated	< 2%
CAS-No. 69011-36-5 Serious eye damage Chronic aquatic toxicity	Category 1 Category 3

#### 4. First aid measures

#### 4.1. Description of first aid measures

# General advice

Remove contaminated or saturated clothing immediately and dispose of safely.

#### Inhalation

If aerosol or mists are inhaled, take affected persons out into the fresh air. Possible discomforts include severe irritation of mucus lining (nose, throat, eyes), cough, sneezing and flow of tears. In case of persistent discomfort, obtain medical attention immediately.

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

# Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Do not allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye. Consult an ophthalmologist.

# Ingestion

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

# Protectosil® WS 670



Specification Order Number

Material no.

168567

Version Revision date **Print Date** 08/03/2016 Page 3/10

Never administer anything by mouth to an individual who rapidly losing conciousness, unconscious or convulsing.

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

#### Symptoms

After absorbing large amount of substance, apply therapy for irritative effects. If substance has been swallowed, early endoscopy is recommended in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, suck away leftover substance. Allergic reactions cannot be excluded. Apply treatment of allergic reaction if necessary.

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

If required, therapy of irritative effect.

If substance has been swallowed:

Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance.

Allergic reactions cannot be excluded.

Treatment of allergic reaction if necessary.

#### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: foam, water spray, Carbon dioxide (CO2), dry powder

Unsuitable extinguishing media: high volume water jet

#### 5.2. Special hazards arising from the substance or mixture

Standard procedure for chemical fires.

#### 5.3. Advice for firefighters

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

#### Accidental release measures 6.

#### Personal precautions, protective equipment and emergency procedures 6.1.

Use personal protective equipment.

#### 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).

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

Handle and open container with care.

#### 7.2. Conditions for safe storage, including any incompatibilities

### Advice on protection against fire and explosion

Normal measures for preventive fire protection.

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

Protect from frost.

# Protectosil® WS 670

 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 4 / 10



Always avoid temperatures of > 40'C.

Do not store together with: strong acids, bases.

### Further information

Keep tightly sealed in original packing.

Protect from frost.

#### 8. Exposure controls/personal protection

# 8.1. Control parameters

#### Other information

No substance-specific limiting value being known.

### 8.2. Exposure controls

### Engineering measures

Provide adequate ventilation.

# Personal protective equipment

### Respiratory protection

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus

Use only respiratory protection equipment with CE-symbol including four digit test number.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Note time limit for wearing respiratory protective equipment.

### Hand protection

Glove material 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.

# Eye protection

Safety glasses

# 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.

# Protectosil® WS 670



 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 5 / 10

### Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

Remove contaminated or saturated clothing.

Wash contaminated clothing before re-use.

#### 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.

Do not breathe in vapours or aerosols.

A void contact with the skin and the eyes.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

physical state liquid
Colour milky-white
Form liquid

Odour almost odourless, slightly alcoholic

pH 6.0 - 8.0 (20 °C)

Melting point/range not determined

Boiling point/range ca. 100 °C

Flash point 95 °C

Method: DIN EN ISO 2719 (Pensky-Martens, Closed Cup)

Evaporation rate not determined

Lower explosion limit not determined

Upper explosion limit not determined

Vapour pressure 23 hPa (20 °C)

water

Density 0.96 g/cm3 (20 °C)

Method: DIN 51757

Water solubility miscible with water

Partition coefficient: n-

not determined

octanol/water

Autoignition temperature not determined

Thermal decomposition not determined

Viscosity, dynamic not determined

### 9.2. Other information

# Protectosil® WS 670



 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 6 / 10

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

No dangerous reactions known.

reactions

# 10.4. Conditions to avoid

temperatures: < 0 °C

temperatures: > 50 °C

# 10.5. Incompatible materials

strong acids, strong bases

# 10.6. Hazardous decomposition products

Ethanol in case of hydrolysis

# 11. Toxicological information

# 11.1. Information on toxicological effects

No toxicological studies are available on the mixture.

Method: Calculation method

Method: Calculation method

Skin irritation Irritating to skin.

Eye irritation Irritating to eyes.

carcinogenicity assessment Contains no carcinogenic substances as defined by NTP, IARC and/or

OSHA.

Further information The toxicological data on this product have not been determined

experimentally.

# 12. Ecological information

# 12.1. Toxicity

No ecotoxicological studies are available on the mixture.

### 12.2. Persistence and degradability

Biodegradability No data available

# Protectosil® WS 670

Material no.

Specification

Order Number

 Version
 3.1 / US

 Revision date
 03/21/2016

 Print Date
 08/03/2016

 Page
 7 / 10



12.3. Bioaccumulative potential

168567

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.

Ecotoxicology Assessment

· Isotridecanol, ethoxylated

Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

# 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.

**Uncleaned packaging** 

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

### Not dangerous according to transport regulations.

14.1. UN number: --

14.2. UN proper shipping name: --

14.3. Transport hazard class(es): --

14.4. Packing group: --

14.5. Environmental hazards (Marine pollutant):

14.6. Special precautions for user: Yes

Not dangerous according to transport regulations.

# 15. Regulatory information

# **US Federal Regulations**

# Protectosil® WS 670



 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 8 / 10

### **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

### 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: 2
Flammability: 1
Physical Hazard: 0

Protectosil® WS 670



 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 9 / 10

### NFPA Ratings

Health: 2 Flammability: 1 Reactivity: 0

#### 16. Other information

#### **Further information**

Revision date 03/21/2016

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.

### 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
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

# Protectosil® WS 670



 Material no.
 Version Revision date
 3.1 / US

 Specification
 168567
 Print Date
 08/03/2016

 Order Number
 Page
 10 / 10

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 Low est observed adverse effect level

LOEL Low est 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