

**SAFETY DATA SHEET****Protectosil® 300 C**

Material no.		Version	<b>2.1 / US</b>
Specification	<b>183218</b>	Revision date	<b>07/23/2015</b>
Order number		Print date	<b>09/16/2015</b>
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**1. Identification****1.1. Product identifier**

Trade name                                      Protectosil® 300 C

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

Relevant applications identified            For industrial use  
 Function    Corrosion inhibitor

**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](mailto: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                             973-929-806  
 Services

**2. Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 4	H227
Skin irritation	Category 2	H315
Acute aquatic toxicity	Category 3	H402

**2.2. Label elements**

Statutory basis                                    Classification according to Regulation 29CFR 1910.1200

**Hazard-defining component(s) (GHS)**

- Isobutyltriethoxysilane  
 symbol(s)



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Signal word	Warning
Hazard statement	H227 - Combustible liquid. H315 - Causes skin irritation. H402 - Harmful to aquatic life.
Precautionary statement: Prevention	P210 - Keep away from open flames/hot surfaces. - No smoking. P264 - Wash skin thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves/ eye protection/ face protection.
Precautionary statement: Reaction	P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. 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**

<b>• NJTSR No.56705700001-5318P</b>	90% - 100%
CAS-No.	Trade Secret
Flammable liquids	Category 4
Skin irritation	Category 2
Acute aquatic toxicity	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 formed: Take affected persons out into the fresh air.

If symptoms persist, consult a physician for treatment.

**Skin contact**

Immediately wash skin with soap and plenty of water. Remove contaminated clothing and continue rinsing with water for 15-20 minutes. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

**Eye contact**

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.

**Ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

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**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 required, therapy of irritative effect.

After absorbing large amounts of substance:

administration of activated charcoal.

Acceleration of gastrointestinal passage

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

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

Unsuitable extinguishing media: High volume water jet.

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

Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

In the case of fire, the following hazardous smoke fumes may be produced: carbon monoxide, carbon dioxide.

**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.

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

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**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, 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.

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**7. Handling and storage****7.1. Precautions for safe handling**

Wear personal protective equipment (see section 8). Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

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Avoid moisture. 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. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

**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 SDS/label precautions even after container is emptied because it may retain product residues.

**Storage**

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

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**8. Exposure controls / personal protection****8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

**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**

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

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Use impermeable gloves.

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.

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

**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.

**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.

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

Physical state	liquid (20 °C) (1013 hPa)	
Color	colorless	
Form	liquid	
Odor	fruity, ester-like	
Odor Threshold	not determined	
pH	not determined.	
Melting point/freezing point	< -72 °C	(1013 hPa)
	Method:	OECD TG 102
Boiling point/range	ca. 186 °C	(1013 hPa)
	Method:	DIN 51 751
Flash point	66 °C	
	Method:	DIN 51758
Evaporation rate	not determined	
Flammability (solid, gas)	not flammable	
	Method:	EEC method 92/69/EEC, A 12
Lower explosion limit	0.39 %(V)	(98 °C)
	Method:	DIN 51649
Upper explosion limit	8.47 %(V)	(150 °C)
	Method:	DIN 51649
Vapor pressure	33 Pa	(20 °C)
	Method:	OECD Test Guideline 104 dynamic method

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	49 Pa	(25 °C)
	Method:	OECD Test Guideline 104 dynamic method
Vapour density	not determined	
Relative density	0.88	(20 °C)
	Method:	OECD Test Guideline 109
Density	ca. 0.94 g/cm <sup>3</sup>	(20 °C)
Water solubility	Not miscible. Decomposition by hydrolysis.	
Partition coefficient: n-octanol/water	log Pow:	3.6
	Method:	QSAR
	log Kow: 2.033 (20°C)	
Autoignition temperature	240 °C (1013 hPa)	
	Method:	DIN 51 794
Thermal decomposition	not determined	
Viscosity, dynamic	not determined	
Viscosity, kinematic	1.4 mm <sup>2</sup> /s	(20 °C)
	Method:	QSAR

**9.2. Other information**

Explosiveness	Vapors can form explosive mixtures with air.
Metal corrosion	Not to be expected in view of the structure

**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**

Keep away from heat and sources of ignition.

**10.5. Incompatible materials**

Water

**10.6. Hazardous decomposition products**

Ethanol in case of hydrolysis

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

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC50 Rat: 5.88 mg/l / 4 h / dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity.
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity.
Skin irritation	Rabbit Skin irritation Method: OECD Test Guideline 404
Eye irritation	Rabbit No eye irritation Method: OECD Test Guideline 405
Sensitization	Maximization test Guinea pig: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Rat / 28-day NOAEL: > 1000 mg/kg Method: OECD Test Guideline 407
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
Gentotoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD TG 471  Chromosomal aberration Chinese hamster (V 79 - cells) negative Method: OECD TG 473  Chromosomal aberration Chinese hamster (CHO K1 - cells) negative Method: OECD TG 476
Gentotoxicity in vivo	Chromosomal aberration Mouse Oral negative Method: OECD TG 474

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Carcinogenicity	No evidence that cancer may be caused.
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	Animal model trials have produced no evidence of fertility damage.

**12. Ecological information****12.1. Toxicity**

Toxicity to fish	LC50 Oncorhynchus mykiss: 85 mg/l / 96 h Method: OECD 203 (literature value)
Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 49.1 mg/l / 48 h Method: OECD 202
Toxicity to algae	NOEC Desmodesmus subspicatus (green algae): >= 36 mg/l / 72 h Method: OECD 201
Toxicity in terrestrial plants	EC50 Trifolium ornithopadioides: > 100 mg/kg / 17 d Method: OECD 208  EC50 Lepidium sativum: > 100 mg/kg / 17 d Method: OECD 208  EC50 Triticum aestivum: > 100 mg/kg / 17 d Method: OECD 208
Toxicity in other terrestrial non-mammals	LC50 Eisenia foetida: > 1000 mg/kg / 14 d Method: OECD 207

**12.2. Persistence and degradability**

Biodegradability	Exposure time: 28 d Result: 12 % Not readily biodegradable. Method: OECD 301 C
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**12.3. Bioaccumulative potential**

Bioaccumulation	not bioaccumulative
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**12.4. Mobility in soil**

Mobility	Adsorption on the floor: low.
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**12.5. Other adverse effects**

Further Information	The data we have at our disposal do not necessitate identification concerning environmental hazard.
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**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 1993  |
| 14.2. UN proper shipping name:                  | Combustible liquid, n.o.s. (Alkyltrialkoxysilane)  |
| 14.3. Transport hazard class(es):               | C  |
| 14.4. Packing group:                            | III  |
| 14.5. Environmental hazards (Marine pollutant): | --   |
| 14.6. Special precautions for user:             | Yes  |
| ROAD:   | Not regulated in packages 450 liter or less. (CFR) |
| RAIL:   | Not regulated in packages 450 liter or less. (CFR) |

**Air transport ICAO-TI/IATA-DGR****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:        | --   |
| 14.6. Special precautions for user: | Yes  |
| IATA-C:                             | Not hazardous freight in air traffic (ICAO-TI / IATA-DGR). |
| IATA-P:                             | Not hazardous freight in air traffic (ICAO-TI / IATA-DGR). |

**Sea transport IMDG-Code/GGVSee (Germany)****Not dangerous according to transport regulations.**

- |                                |    |
|--------------------------------|----|
| 14.1. UN number:               | -- |
| 14.2. UN proper shipping name: | -- |

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- 14.3. Transport hazard class(es): --
- 14.4. Packing group: --
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes  
**Not classified as hazardous sea cargo (IMDG code)**  
**FOR USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible Liquid to the USA.**
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

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**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:

- 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

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**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:

- 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 :	2
Physical Hazard :	1

**NFPA Ratings**

Health :	2
Flammability :	2
Reactivity :	1

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**16. Other information****Further information**

Revision date 07/23/2015

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

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**Legend**

<b>ACC</b>	American Chemistry Council
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ACS</b>	Advisory Committee on Sustainability

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<b>ADI</b>	Acceptable Daily Intake
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BOD</b>	Biochemical oxygen demand
<b>c.c.</b>	closed cup
<b>CAO</b>	Cargo Aircraft Only
<b>Carc</b>	Carcinogen
<b>CAS</b>	Chemical Abstract Services
<b>CDN</b>	Canada
<b>C EPA</b>	Canadian Environmental Protection Act
<b>CERCLA</b>	Comprehensive Environmental Response - Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	carcinogenic- mutagenic-toxic for reproduction
<b>COD</b>	Chemical oxygen demand
<b>DIN</b>	German Institute for Standardization
<b>DM EL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>DOT</b>	Department of Transportation
<b>EC50</b>	half maximal effective concentration
<b>EPA</b>	Environmental Protection Agency
<b>ErC50</b>	Reduction of Growth Rate
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	Intermediate Bulk Container
<b>ICAO-TI</b>	International Civil Aviation Organization - Technical Instructions
<b>ICCA</b>	International Council of Chemical Association
<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>ISO</b>	International Organization for Standardization
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>L(E)C 50</b>	LC50 or EC50
<b>LOA EL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organization for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>RQ</b>	Reportable Quantity
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>UN</b>	United Nations
<b>vPvB</b>	very persistent, very bioaccumulative
<b>voc</b>	volatile organic compounds
<b>WHMIS</b>	Workplace Hazardous Materials Information System
<b>WHO</b>	World Health Organization