

MATERIAL SAFETY DATA SHEET

Protectosil® CHEM-TRETE® 40 VOC



Material no.		Version	3.5 / US
Specification	141224	Revision date	01/06/2011
Order Number		Print Date	04/09/2012
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Protectosil® CHEM-TRETE® 40 VOC
CHEM-TRETE® BSM 40 VOC

Company : Evonik Degussa Corporation USA
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

Telephone : 973-929-8000

Telefax : 973-929-8040

US: CHEMTREC EMERGENCY : 800-424-9300
NUMBER

CANADA: CANUTEC : 613-996-6666
EMERGENCY NUMBER

Product Regulatory Services : 973-929-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-liquid **Color-clear** **Odor-strong odor**

Flammable liquid and vapor. Vapors may cause flash fire or explosion. May cause eye, skin and respiratory tract irritations.

POTENTIAL HEALTH EFFECTS

Eye contact

Possibly irritating.

Skin Contact

Irritating.

Inhalation

Possibly irritating.
Vapours may cause narcotic effects.

Ingestion

May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic Health Hazard

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Ethanol: ACGIH TLV: TWA 1000 ppm; OSHA PEL: TWA 1000 ppm. Liquid and high vapor concentrations cause eye irritation. Contact of liquid with skin causes drying, cracking, and irritation. Inhalation causes irritation of the respiratory tract. Repeated or prolonged exposure to high vapor concentrations may cause drowsiness. Excessive or repeated ingestion may cause central nervous system effects, liver effects and reproductive effects. However, ingestion is not an expected route of exposure. Ethanol has a low potential to cause allergic skin reactions; however, undocumented cases of human skin sensitization have been reported. Undocumented reports suggest that this product may form a siloxane polymer on the eyes, lungs, or other mucous membranes. In the event of contact, get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

NJTSR No.56705700001-5318P				
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	55 %	
Ethanol; ethyl alcohol				
CAS-No.	64-17-5	Percent (Wt./ Wt.)	45 %	

Other information

This material is classified as hazardous under OSHA regulations.

4. 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

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

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Ingestion

If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point	12.78 °C , 55 °F Method: Pensky-Martens C.C.
Lower explosion limit	not determined
Upper explosion limit	not determined

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OSHA Flammability Classification

Flammable liquid

Suitable extinguishing media

Use water spray or fog, foam, dry chemical or CO2.

Specific hazards during fire fighting

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

Further information

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Remove all sources of ignition. Ventilate the area.
Wear personal protective equipment; see section 8.

Environmental precautions

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

Methods for cleaning up

Contain and collect spillage 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.
Ensure sufficient ventilation.

7. HANDLING AND STORAGE

Handling

Safe handling advice

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid breathing vapor or mist. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Follow all MSDS/Label precautions even after the container is emptied because it may retain product residue.
Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

Wear personal protective equipment; see section 8.

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.

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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

Requirements for storage areas and containers

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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines

• Ethanol; ethyl alcohol

CAS-No. 64-17-5

Control parameters 1000 ppm

1900 mg/m³

1000 ppm

1900 mg/m³

1000 ppm

PEL:(OSHA Z1)

Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA
OEL)

Short Term Exposure Limit
(STEL):(ACGIH)

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

Use impermeable gloves.

Eye protection

Use chemical splash goggles or face shield.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Color	clear
Odor	strong odor

Safety data

pH	not determined
Boiling point/range	78 °C (760 hPa)
Flash point	12.78 °C Method: Pensky-Martens C.C.
Explosiveness	Vapors can form explosive mixtures with air.
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapor pressure	74 hPa (22 °C)
Relative density	0.8
Solvents and Volatiles Data	% VOC (gm/l) 600

10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid high temperatures and sources of ignition.
Materials to avoid	Water, acids, oxidizing substances
Hazardous decomposition products	Silicone polymers.
Further information	Stable under normal conditions. Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity	NJTSR No.56705700001-5318P Trade Secret LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401
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Ethanol; ethyl alcohol
64-17-5
LD50 Rat: 7060 mg/kg
RTECS

Component Acute inhalation toxicity NJTSR No.56705700001-5318P
Trade Secret
LC50 Rat: 5.88 mg/l / 4 h / Aerosol

Component Acute dermal toxicity NJTSR No.56705700001-5318P
Trade Secret
LD50 Rat: > 2000 mg/kg
Method: OECD Test Guideline 402

Component Skin irritation NJTSR No.56705700001-5318P
Trade Secret
Rapid evaporation of the liquid may cause frostbite.

NJTSR No.56705700001-5318P
Trade Secret
Rabbit
irritating
Method: OECD Test Guideline 404

12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

13. DISPOSAL CONSIDERATIONS**WASTE DISPOSAL**

Advice on disposal Waste must be disposed of in accordance with federal, provincial, state and local regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH.

14. TRANSPORT INFORMATION**D.O.T. Road/Rail**

Class	3
UN-No	1170
Packing group	II
Proper shipping name	ETHANOL SOLUTION

Sea transport IMDG-Code

Class	3
UN-No	1170

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Packaging group II
EmS F-E, S-D
Proper technical name (Proper shipping name)
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Air transport ICAO-TI/IATA-DGR

Class 3
UN-No 1170
Packaging group II
Proper technical name (Proper shipping name)
Ethanol solution

Loading instructions/Remarks

IATA_C ERG-Code 3L
IATA_P ERG-Code 3L
IATA_C Maximum Net Quantity per Package 60 L
IATA_P Maximum Net Quantity per Package 5 L

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

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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

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

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

• Europe (EINECS/ELINCS)	Not listed/Not registered
• USA (TSCA)	Listed/registered
• Canada (DSL)	Listed/registered
• Australia (AICS)	Listed/registered
• Japan (MITI)	Not listed/Not registered
• Korea (TCCL)	Listed/registered
• Philippines (PICCS)	Listed/registered
• China	Listed/registered
• New Zealand	Listed/registered

16. OTHER INFORMATION

HMIS Ratings

Health :	2
Flammability :	3
Physical Hazard :	1

NFPA Ratings

Health :	2
Flammability :	3
Reactivity :	1

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Further information

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.