

# MATERIAL SAFETY DATA SHEET

## Protectosil® CHEM-TRETE® 40D



Material no.		Version	1.6 / US
Specification	141227	Revision date	07/03/2008
Order Number		Print Date	07/17/2008
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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product information

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

Company : Evonik Degussa Corporation  
379 Interpace Parkway  
Parsippany, NJ 07054  
USA

Telephone : 973-541-8000

Telefax : 973-541-8040

US: CHEMTREC EMERGENCY NUMBER : 800-424-9300

CANADA: CANUTEC EMERGENCY NUMBER : 613-996-6666

Product Regulatory Services : 973-541-8060

### 2. HAZARDS IDENTIFICATION

#### \*\*\* EMERGENCY OVERVIEW \*\*\*

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

Harmful by inhalation and if swallowed.  
Flammable liquid and vapor.  
Vapors may cause flash fire or explosion.  
May cause eye, skin and respiratory tract irritation.

#### POTENTIAL HEALTH EFFECTS

##### Eye contact

Irritating.

##### Skin Contact

Irritating.

##### Inhalation

May cause irritations of the respiratory tract.

##### Ingestion

May be harmful if swallowed.

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### Chronic Health Hazard

Methanol: OSHA PEL: TWA 200ppm (skin); ACGIH TLV: TWA 200ppm, STEL 250ppm (skin). Causes moderate eye irritation with transient redness and discomfort. Contact causes moderate skin irritation with dryness (defatting), itching and/or rash. Absorption through the skin is possible and can cause nausea, headache, and general discomfort. Prolonged or repeated exposure may cause adverse eye effects such as conjunctivitis or corneal damage, and skin effects such as defatting, rash, or corrosion. Methanol is toxic by inhalation and ingestion. Inhalation of vapors may cause cyanosis, lethargy, loss of consciousness and death. The effects from inhalation may be delayed. Ingestion may cause malaise, discomfort, and death if not treated promptly. Medical conditions aggravated by exposure include: skin disorders and allergies, liver disorders and eye disease.

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

Ethanol				
CAS-No.	64-17-5	Percent (Wt./ Wt.)	49 %	
Methanol				
CAS-No.	67-56-1	Percent (Wt./ Wt.)	11 %	
NJTSR No.56705700001-5318P				
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	20 %	

#### 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. Thoroughly wash clothing, shoes and protective equipment before reuse or discard. Get medical attention if irritation develops or persists.

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

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## 5. FIRE-FIGHTING MEASURES

Flash point	12.78 °C , 55 °F Method: Pensky-Martens C.C.
Lower explosion limit	3.5 %(V)
Upper explosion limit	44.0 %(V)
Autoignition temperature	not determined
OSHA Flammability Classification	Flammable liquid

#### Suitable extinguishing media

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

#### 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.

#### 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.

#### Further information

Containers can build up pressure if exposed to heat (fire). Cool with water spray.

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## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### 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

Soak up with absorbent material, e.g., sand, silica gel, acid binder, universal binder or sawdust. Place in a marked, sealable container and dispose of in accordance with existing federal, provincial, state and local regulations.

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### 7. HANDLING AND STORAGE

#### Handling

##### Safe handling advice

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. Ground and bond containers when transferring material. Use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

#### Storage

##### Requirements for storage areas and containers

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

CAS-No. 64-17-5  
Control parameters 1000 ppm  
1000 ppm  
1900 mg/m<sup>3</sup>  
1000 ppm  
1900 mg/m<sup>3</sup>

Time Weighted Average (TWA):(ACGIH)  
PEL:(OSHA Z1)

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA OEL)

##### • Methanol

CAS-No. 67-56-1  
200 ppm  
250 ppm

Time Weighted Average (TWA):(ACGIH)  
Short Term Exposure Limit (STEL):(ACGIH)  
Skin designation:(ACGIH)

Can be absorbed through the skin.

200 ppm  
260 mg/m<sup>3</sup>  
200 ppm  
260 mg/m<sup>3</sup>

PEL:(OSHA Z1)

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA OEL)

1000 ppm  
250 ppm  
325 mg/m<sup>3</sup>

Ceiling Limit Value:(US CA OEL)  
Short Term Exposure Limit (STEL):(US CA OEL)  
Skin designation:(US CA OEL)

Can be absorbed through the skin.

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### Engineering measures

Ensure good ventilation during processing.

### 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.

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Color	clear
Odor	strong odor

### Safety data

pH	not applicable
Boiling point/range	78 °C (760 hPa)
Flash point	12.78 °C Method: Pensky-Martens C.C.
Autoignition temperature:	not determined
Lower explosion limit	3.5 %(V)
Upper explosion limit	44.0 %(V)
Vapor pressure	74 hPa (22 °C)
Relative density	0.8

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Evaporation rate                      Slower than butyl acetate

### 10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid high temperatures and sources of ignition.
Materials to avoid	Water, oxidizing agents
Hazardous decomposition products	Ethanol in case of hydrolysis
Further information	This product is not stable under normal storage conditions. Product will not undergo hazardous polymerization.

### 11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity	Methanol 67-56-1 LD50 Rat: 2963 mg/kg (literature value)  NJTSR No.56705700001-5318P Trade Secret LD50 Rat: > 5000 mg/kg Own study
Component Acute inhalation toxicity	Harmful by inhalation.  NJTSR No.56705700001-5318P Trade Secret LC0 Rat: 5.88 mg/l / 4 h Own test result.
Component Acute dermal toxicity	Methanol can be absorbed through the skin causing blindness and other eye damage.  NJTSR No.56705700001-5318P Trade Secret LD50 Rat: > 2000 mg/kg Own study
Component teratogenicity assessment	Methanol 67-56-1 Potential embryo-foetal toxicity and teratogenicity.
Product General Toxicity Information	The toxicological properties of this product have not been fully investigated.

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## 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, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

## 14. TRANSPORT INFORMATION

### D.O.T. Road/Rail

Class	3
UN-No	1139
Packing group	II
Proper shipping name	COATING SOLUTION

### Sea transport IMDG-Code

Class	3
UN-No	1139
Packaging group	II
EmS	F-E, S-E
Proper technical name (Proper shipping name)	COATING SOLUTION

### Air transport ICAO-TI/IATA-DGR

Class	3
UN-No	1139
Packaging group	II
Proper technical name (Proper shipping name)	Coating solution

### Loading instructions/Remarks

IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L

## 15. REGULATORY INFORMATION

### Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

NJTSR No.56705700001-5816P

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CAS-No.	Trade Secret	Percent (Wt./ Wt.)	17 %
NJTSR No.56705700001-5102P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	3 %

### 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:

- Methanol  
CAS-No. 67-56-1

#### CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- Methanol  
CAS-No. 67-56-1  
Reportable Quantity 45455 lbs

#### 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:

- Methanol  
CAS-No. 67-56-1

#### 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:

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

- Ethanol  
CAS-No. 64-17-5

### 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)       | Not listed/Not registered |
| • Japan (MITI)           | Listed/registered         |
| • Korea (TCCL)           | Not listed/Not registered |
| • Philippines (PICCS)    | Not listed/Not registered |
| • China                  | Listed/registered         |

## 16. OTHER INFORMATION

### HMIS Ratings

Health :	2
Flammability :	3
Physical Hazard :	1

### NFPA Ratings

Health :	2
Flammability :	3
Reactivity :	1

### Further information

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

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