Protectosil® CHEM-TRETE® PB 100

 Material no.
 Version
 1.11 / US

 Specification
 151513
 Revision date 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® PB 100

CHEM-TRETE® PB 100

Use of the Substance /

Preparation Company

FOR PROFESSIONAL USE ONLY.

: Evonik Degussa Corporation USA

299 Jefferson Road

Parsippany, NJ 07054-0677

USA

Telephone : 973-929-8000

Telefax : 973-929-8040

US: CHEMTREC EMERGENCY

NUMBER

800-424-9300

CANADA: CANUTEC

EMERGENCY NUMBER

: 613-996-6666

Product Regulatory Services : 973-929-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-liquid Color-clear Odor-strong odor

Combustible liquid and vapor.

Vapors may cause flash fire or explosion.

May cause eye/skin irritation.

Causes respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

Eye contact

Irritating.

Skin Contact

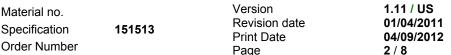
Irritating.

Inhalation

Severely irritating.

Ingestion

Protectosil® CHEM-TRETE® PB 100





No hazard expected in normal use.

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

Chronic Health Hazard

This product can hydrolyze to form a material posing additional health effects: 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.56705700001-6651P

CAS-No. Trade Secret Percent (Wt./ Wt.) 80 %

NJTSR No.56705700001-5361P

CAS-No. Trade Secret Percent (Wt./ Wt.) 19.6 %

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

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. 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, 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 50 $^{\circ}$ C , 122 $^{\circ}$ F

OSHA Flammability Classification Combustible liquid

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Suitable extinguishing media

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

Specific hazards during fire fighting

Combustible 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

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation. Use personal protective equipment.

Methods for cleaning up

Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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. 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.

Advice on protection against fire and explosion

Take precautionary measures against static charges and keep away from sources of ignition.

Storage

Requirements for storage areas and containers

Keep away from heat. Keep away from sparks, flame and other sources of ignition.

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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Handle in accordance with good hygiene and safety practices.

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

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid
Color clear
Odor strong odor

Safety data

pH not determined

Boiling point/range not determined

Flash point 50 °C

Relative vapor density Heavier than air

Solvents and Volatiles Data

% VOC (gm/l) 375

10. STABILITY AND REACTIVITY

Conditions to avoid Keep away from heat and sources of ignition.

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Materials to avoid Water, oxidizing substances

Further information Stable under normal conditions.

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity NJTSR No.56705700001-6651P

Trade Secret

LD50 Rat: > 5000 mg/kg

Own study

NJTSR No.56705700001-5361P

Trade Secret

LD50 Rat: > 5110 mg/kg

Component Acute inhalation

toxicity

NJTSR No.56705700001-6651P

Trade Secret

LC50 Rat: 5.88 mg/l / 4 h / Aerosol

Own test result.

Component Acute dermal toxicity NJTSR No.56705700001-6651P

Trade Secret

LD50 Rat: > 2000 mg/kg

Own study

Product General Toxicity

Information

No investigations were carried out with the preparation itself.

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

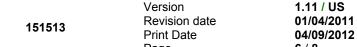
Class 3

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UN-No 1993 Packing group III

Proper shipping name Flammable liquids, n.o.s.

Technical Name (alkoxysilane)

Sea transport IMDG-Code

 Class
 3

 UN-No
 1993

 Packaging group
 III

 EmS
 F-E, S-E

Proper technical name (Proper shipping name)

FLAMMABLE LIQUID, N.O.S.

(alkoxysilane)

Air transport ICAO-TI/IATA-DGR

Class 3
UN-No 1993
Packaging group III
Proper technical name (Proper shipping name)

Flammable liquid, n.o.s.

(alkoxysilane)

Loading instructions/Remarks

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

CFR_RAIL In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

CFR_ROAD In the U.S. this material may be classified as combustible liquid.

Combustible liquids are not regulated in packages 450 liters or less.

This applies for shipments by road and rail only.

IATA_C Maximum Net Quantity per Package 220 L
IATA P Maximum Net Quantity per Package 60 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

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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

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

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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)
 USA (TSCA)
 Canada (DSL)
 Australia (AICS)
 Listed/registered
 Listed/registered
 Listed/registered

Japan (MITI)
 Not listed/Not registered

Korea (TCCL) Listed/registered
 Philippines (PICCS) Listed/registered
 China Listed/registered

16. OTHER INFORMATION

HMIS Ratings

Health: 2 Flammability: 2 Physical Hazard: 1

NFPA Ratings

Health: 2 Flammability: 2 Reactivity: 1

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.