

**Teflon<sup>®</sup> Advanced Protector**

Version 2.2

Revision Date 04/25/2012

Ref. 130000050492

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Teflon <sup>®</sup> Advanced Protector
MSDS Number	:	130000050492
Product Use	:	Carpet protector
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information	:	1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency	:	1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency	:	CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)
Other information	:	professional use

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

The hazards of this product are associated mainly with its processing. Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema). Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

**Potential Health Effects**

Skin	:	May cause skin irritation. May cause:, Discomfort, itching, redness, or swelling..
Eyes	:	May cause eye irritation. May cause:, tearing, Redness, Discomfort.
Inhalation	:	Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema). Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

**Carcinogenicity**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Water	7732-18-5	76 - 92 %
2-Methylpentane-2,4-diol	107-41-5	3 - 7 %
Partially Fluorinated Condensation Polymer		1 - 5 %
Acrylic Copolymer		3 - 7 %
Partially Fluorinated Amphiphilic Condensation Polymer		1 - 5 %

**SECTION 4. FIRST AID MEASURES**

- Skin contact : Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Symptoms may be delayed. Call a physician immediately.
- Ingestion : Call a physician or poison control centre immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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General advice : When symptoms persist or in all cases of doubt seek medical advice.

**SECTION 5. FIREFIGHTING MEASURES**

## Flammable Properties

Flash point : > 93 °C (> 199 °F)

Thermal decomposition : > 200 °C (> 392 °F)

To avoid thermal decomposition, do not overheat.

Thermal decomposition can lead to release of irritating gases and vapours.

Fire and Explosion Hazard : The product itself does not burn. Hazardous decomposition products formed under fire conditions. Hazardous combustion products: Hydrogen fluoride Carbon dioxide (CO<sub>2</sub>) Carbon monoxide Other hazardous decomposition products may be formed.

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Firefighting Instructions : Wear self contained breathing apparatus for fire fighting if necessary. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel to safe areas. Use personal protective equipment. Ventilate the area.

Spill Cleanup : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

Accidental Release Measures : Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.

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**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Avoid formation of respirable particles. Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
- Handling (Physical Aspects) : To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of irritating gases and vapours.  
Do not spray near open flame or heated surface.
- Storage : Keep tightly closed in a dry, cool and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Use only in area provided with appropriate exhaust ventilation. Use an airless flow type of spray applicator. Keep spraying pressure below 60 psi.
- Personal protective equipment
- Respiratory protection : In case of mist or aerosol exposure wear suitable personal respiratory protection.
- Hand protection : Additional protection: Impervious gloves
- Eye protection : Wear safety glasses or coverall chemical splash goggles.
- Skin and body protection : Lightweight protective clothing

**Exposure Guidelines****Exposure Limit Values**

2-Methylpentane-2,4-diol

TLV

(ACGIH)

25 ppm

TLV-C

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which

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are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: liquid
Color	: white
Odor	: slight, acrylic-like
pH	: 3.5 - 5.3
Freezing point	: ca. 0 °C (32 °F)
Boiling point	: ca. 100 °C (212 °F) at 760 mm Hg
% Volatile	: 83 - 95 %
Specific gravity	: 1.02
Water solubility	: dispersible

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Hazardous decomposition products	: Carbon dioxide , Carbon monoxide, Hydrogen fluoride Incompletely burned carbon products Other hazardous decomposition products may be formed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Teflon® Advanced Protector	
Further information	: No data is available on the product itself.
2-Methylpentane-2,4-diol	
Dermal LD50	: > 2,000 mg/kg , rat
Oral LD50	: > 2,000 mg/kg , rat
Inhalation	: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Skin irritation	: slight irritation, rabbit

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Eye irritation	: slight irritation, rabbit
Skin sensitization	: Animal test did not cause sensitization by skin contact., guinea pig
Repeated dose toxicity	: Oral rat  No adverse effect has been observed in chronic toxicity tests.
Mutagenicity	: Evidence suggests this substance does not cause genetic damage in animals. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	: Animal testing showed no reproductive toxicity.
Teratogenicity	: Evidence suggests the substance is not a developmental toxin in animals.

## Partially Fluorinated Condensation Polymer

Oral ALD	: > 11,000 mg/kg , rat
Skin irritation	: slight irritation, rabbit
Eye irritation	: slight irritation, rabbit
Skin sensitization	: Did not cause sensitization on laboratory animals., mouse
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	: Animal testing showed no reproductive toxicity.
Teratogenicity	: Animal testing showed no developmental toxicity.

## Partially Fluorinated Amphiphilic Condensation Polymer

Dermal LD50	: > 5,000 mg/kg , rat
Oral LD50	: > 5,000 mg/kg , rat
Inhalation 4 h ALC - Approximate Lethal	: > 1.363 mg/l , rat

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Concentration	
Skin irritation	: No skin irritation, rabbit
Eye irritation	: slight irritation, rabbit
Skin sensitization	: Did not cause sensitization on laboratory animals., mouse
Mutagenicity	: Did not cause genetic damage in cultured bacterial cells.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

## 2-Methylpentane-2,4-diol

96 h LC50	: Pimephales promelas (fathead minnow) 8,690 mg/l
96 h LC50	: Oncorhynchus mykiss (rainbow trout) 9,450 mg/l
96 h LC50	: Lepomis macrochirus (Bluegill sunfish) 12,800 mg/l
96 h LC50	: Gambusia affinis (Mosquito fish) 8,510 mg/l
96 h LC50	: Carassius auratus (goldfish) 12,000 mg/l
72 h EC50	: Selenastrum capricornutum (green algae) > 429 mg/l
48 h EC50	: Daphnia magna (Water flea) 5,410 mg/l

## Partially Fluorinated Condensation Polymer

96 h LC50	: Oncorhynchus mykiss (rainbow trout) > 100 mg/l Information given is based on data obtained from similar product.
72 h NOEC	: Algae > 100 mg/l Information given is based on data obtained from similar product.
72 h LC50	: Algae > 100 mg/l Information given is based on data obtained from similar product.
48 h EC50	: Daphnia magna (Water flea) 4.3 mg/l Information given is based on data obtained from similar product.



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Partially Fluorinated Amphiphilic Condensation Polymer

48 h EC50 : Daphnia magna (Water flea) > 120 mg/l  
Information given is based on data obtained from similar product.

Environmental Fate

2-Methylpentane-2,4-diol

Biodegradability : Readily biodegradable.

Bioaccumulation : Bioconcentration factor (BCF) : 3.16  
Bioaccumulation is unlikely.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : In accordance with local and national regulations.

### **SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15. REGULATORY INFORMATION**

TSCA : Listed  
This material contains one or more substances which are subject to a TSCA Section 5 Consent Order or Significant New Use Rule (SNUR).  
See 40 CFR 721.10146 for SNUR requirements.  
This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:



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: Partially Fluorinated Amphiphilic Condensation Polymer  
PMN Number: P-08-0200  
Partially Fluorinated Condensation Polymer  
PMN Number: P-07-0087

This material shall not be distributed to consumers for use in spray applications.  
Contact your local DuPont sales or technical representative for more information.

SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): 2-Methylpentane-2,4-diol

NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): 2-Methylpentane-2,4-diol

**SECTION 16. OTHER INFORMATION****HMIS**

Health	:	1
Flammability	:	0
Reactivity/Physical hazard	:	0

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Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE  
19898, (800) 441-7515



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