

**DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation**

Version 2.0

Revision Date 04/01/2010

Ref. 130000094932

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 : DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation  
MSDS Number : 130000094932

Manufacturer : DuPont  
1007 Market Street  
Wilmington, DE 19898

Product Information : 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)

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

May cause eye and skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation of respiratory tract.

**Potential Health Effects**

This product is a mixture. Health hazard information is based on its components.

Skin : May cause: Irritation with discomfort or pain, redness or rash, itching or swelling.

Eyes : May cause: transient irritation with discomfort, tearing.

Inhalation : Inhalation of mist or dried residue causes irritation of respiratory system.

Target Organs : Skin, Respiratory Tract

**Carcinogenicity  
Material**

IARC	NTP	OSHA
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Titanium dioxide	2B	
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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Proprietary polymer		25 - 50 %
Polyether diol		15 - 25 %
Precipitated calcium carbonate	471-34-1	20 - 30 %
Titanium dioxide	13463-67-7	5 - 10 %
Diaminopropyl trimethoxysilane	1760-24-3	1 - 5 %
Trimethoxyvinylsilane	2768-02-7	1 - 2 %

Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled.

**SECTION 4. FIRST AID MEASURES**

Skin contact	: In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops and persists.
Eye contact	: Rinse with plenty of water. Consult a physician if necessary.
Inhalation	: Remove person to fresh air. If signs/symptoms continue, get medical attention.
Ingestion	: DO NOT induce vomiting unless directed to do so by a physician or poison control center.

**DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation**

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Fire and Explosion Hazard : Does not readily burn or support combustion. Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed upon combustion.
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Firefighting Instructions : Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus. Evacuate personnel to safe areas.

**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.

- Spill Cleanup : Shovel into suitable container for disposal. Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

- Storage : Store in a clean, dry place. To maintain product quality, do not store in heat or direct sunlight.

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

## Personal protective equipment

- Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH approved respiratory protection.

- Eye protection : Wear protective eyewear to prevent contact with this substance.

- Skin and body protection : Wear protective gloves/clothing to prevent skin contact.

## Exposure Guidelines

## Exposure Limit Values

Calcium carbonate

PEL: (OSHA) 5 mg/m<sup>3</sup> 8 hr. TWA Respirable fraction.

**DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation**

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Titanium dioxide					
PEL:	(OSHA)	15 mg/m3	8 hr. TWA	Total dust.	
TLV	(ACGIH)	10 mg/m3	TWA		
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.	
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.	

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: paste
Color	: white
% Volatile	: < 2 %
Specific Gravity	: 1.0 - 1.8

**SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable under normal conditions.
Conditions to avoid	: Temperature > 140 F
Incompatibility	: Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Hazardous decomposition products	: Decomposes slowly on exposure to water. Possible decomposition products in case of hydrolysis are: Methanol

**SECTION 11. TOXICOLOGICAL INFORMATION**

DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation

Further information	: No data is available on the product itself.
Polyether diol	
Dermal LD50	: 20,000 mg/kg , rabbit
Oral LD50	: 3,750 - 40,000 mg/kg , rat
Inhalation LC50	: > 200 mg/l , animals (unspecified species)

**DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation**

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Precipitated calcium carbonate	
Oral LD50	: 6,450 mg/kg , rat
Titanium dioxide	
Dermal ALD	: > 10,000 mg/kg , rabbit
Oral ALD	: > 24,000 mg/kg , rat
Inhalation 4 h ALC	: > 6.82 mg/l , rat
Carcinogenicity	: An increased incidence of tumours was observed in laboratory animals. Based upon all available study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
Diaminopropyl trimethoxysilane	
Dermal LD50	: 16 mg/kg , rabbit
Oral LD50	: 2,400 mg/kg , rat
Mutagenicity	: Did not cause genetic damage in animals. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Trimethoxyvinylsilane	
Dermal LD50	: 3,270 mg/kg , rabbit
Oral LD50	: 7,000 mg/kg , rat
Inhalation LC50	: 16.81 mg/l , rat
Mutagenicity	: Tests on mammalian cell cultures showed mutagenic effects. Did not show mutagenic effects in animal experiments.

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity	
Polyether diol	
96 h LC50	: Menidia peninsulae (tidewater silverside) 650 mg/l The substance is a polymer and is not expected to produce toxic

**DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation**

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Revision Date 04/01/2010

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effects.

Titanium dioxide  
96 h LC50 : Pimephales promelas (fathead minnow) > 1,000 mg/l

Diaminopropyl trimethoxysilane  
96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 100 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 8.8 mg/l

48 h EC50 : Daphnia magna (Water flea) 90 mg/l

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Comply with applicable Federal, State/Provincial and Local Regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY 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): Titanium dioxide, Calcium carbonate

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): Titanium dioxide



**DuPont™ Tyvek® Fluid Applied Flashing - Brush Formulation**

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**SECTION 16. OTHER INFORMATION**

DuPont™ Tyvek® are trademarks of E. I. du Pont de Nemours and Company

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