

**Chemical Name:** FEP Fluoropolymer Resin Dispersion

Manufacturer: Du Pont

Container size: 13lb.

Location: VLA

**Disposal:** Place empty container in trash. Give partial or full container to safety officer.



Version 3.0

Revision Date 06/22/2012

Ref. 15000002335

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 Tradename/Synonym	:	FEP Fluoropolymer Resin 6100-FL, TE9050, TE9468F, TE9484FL, 5101, TE9304, TE9834FL, TE9819 TE9844FL
MSDS Number	:	15000002335
Product Use	:	Plastic material for further processing
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

#### **SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview** 

The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Potential Health Effects Skin	
Hexafluoropropen e/Tetrafluoroethyl ene copolymer	: Dust may cause: Discomfort, itching, redness, or swelling.
Eyes Hexafluoropropen e/Tetrafluoroethyl ene copolymer	: Dust may cause: tearing, Redness, Discomfort.
Inhalation	
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	Hexafluoropropen e/Tetrafluoroethyl ene copolymer		<ul> <li>Dust may cause: Respiratory tra The thermal decomposition vapor polymer fume fever with flu-like is smoking contaminated tobacco.</li> <li>Symptoms usually appear after is days.</li> <li>Repeated episodes of polymer f effects.</li> <li>Polymer may extensively decome Inhalation of fluorinated decomp and pulmonary oedema.</li> <li>Symptoms may be delayed for se Symptoms may be severe or life</li> </ul>	ect irritation burs of fluorinated symptoms in hum several hours and ume fever may re pose if severely osition products everal hours. -threatening.	d polymers may cause nans, especially when d resolve within 1 to 2 esult in persistent lung overheated or burned. may cause lung irritation	
	Carcinogenicity None of the components IARC, NTP, or OSHA, as	pre a c	sent in this material at concentratio carcinogen.	ns equal to or gre	eater than 0.1% are listed b	У
SEC	CTION 3. COMPOSITION/INFO	RM	ATION ON INGREDIENTS			
	Component			CAS-No.	Concentration	]
	Hexafluoropropene/Tetrafluoroethylene copolymer			25067-11-2	100 %	
				1		J
SEC	CTION 4. FIRST AID MEASURE	ES				
	Skin contact	No hazards which require special first aid measures. Wash off with soap and water. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Consult a physician.				
	Eye contact	: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention immediately.				
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Inhalation	· Move to fresh air in case of accidental inhalation of fumes from overheating or				
initiation	combustion. Consult a physician.				
Ingestion	: Not a probable route of exposure. However, in case of accidental ingestion, call a physician.				
SECTION 5. FIREFIGHTING MEA	SURES				
Flammable Properties					
	: Difficult to ignite, and fiame goes out when initiating source is removed.				
Ignition temperature	: 530 - 550 °C (986 - 1,022 °F)				
Autoignition temperature	perature : 520 - 560 °C (968 - 1,040 °F)				
Lower explosion limit	: not applicable				
Upper explosion limit	: not applicable				
Fire and Explosion Hazard	: Hazardous thermal decomposition products:				
	acid fluorides				
	Fluorinated compounds				
	Hydrogen fluoride				
	Carbon monoxide				
Suitable extinguishing media	: Carbon dioxide (CO2), Dry powder, Foam, Water				
Firefighting Instructions	: In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment. Wear neoprene gloves during cleaning up work after a				
	fire. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid.				
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SECTION 6. ACCIDENTAL RELI	EASE MEASURES
NOTE: Review FIRE FIGHTIN up. Use appropriate PERSON	IG MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean- AL PROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel)	: Ventilate the area. Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.
Spill Cleanup	: Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Accidental Release Measures	: No special environmental precautions required.
SECTION 7. HANDLING AND ST	ORAGE
Handling (Personnel)	: For personal protection see section 8. Protect from contamination. When opening containers, avoid breathing vapours that may be emanating. Avoid breathing dust. Avoid contamination of cigarettes or tobacco with dust from this material. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. In case of insufficient ventilation, wear suitable respiratory equipment. Do not use a torch to clean this material from equipment without local exhaust ventilation and respirator. Regular cleaning of equipment, work area and clothing. Wash hands and face before breaks and immediately after handling the product. Do not contaminate tobacco products. General precaution for all plastics and elastomers: Do not breathe fumes evolved from hot polymer.
Storage	<ul> <li>Keep container tightly closed in a dry and well-ventilated place. Protect from contamination.</li> <li>Stable under recommended storage conditions.</li> </ul>
SECTION 8. EXPOSURE CONTR	ROLS/PERSONAL PROTECTION
Engineering controls	: Ensure adequate ventilation, especially in confined areas. Good general 4 / 9



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		ventilatio exposure airborne	n shoul limits. contam	d be provided to Local exhaust v ination.	entilation should b	ntrations below the be employed to minimize
Personal protective equipmen Respiratory protection	t :	When wo	orkers a opriate	re facing concer certified respirat	ntrations above th tors.	e exposure limit they must
Hand protection	:	Additional protection: Protective gloves (Type : Kevlar <sup>®</sup> - heat resistant, use possible until worn out)				
Eye protection	:	Safety gla	asses v	vith side-shields		
Skin and body protection	:	If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.				
Exposure Guidelines Exposure Limit Values FEP Fluoropolymer Re	esin					
			Dust (	(inhalable and re	espirable fraction)	
TLV	(AC	GIH)	TWA	10 mg/m3 Inhalable par 3 mg/m3	ticles.	
PEL:	(05	SHA)	TWA 5 TWA 1 TWA	Respirable p 5 mg/m3 Respirable fra 15 mg/m3 Total dust.	articles.	
Poly(Hexafluoropropene/	Tetra	afluoroethy	/lene)			
AEL *	(DL	JPONT)	1	10 mg/m3	8 & 12 hr. TWA	Total dust.
AEL *	(DL	JPONT)	Ę	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
* AEL is DuPont's Acceptab are lower than the AEL are	le Ex in eff	xposure Li ect, such	mit. Wr limits sl	nere governmen hall take preced	tally imposed occu ence.	upational exposure limits which

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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form Color Odor
- : powder : white : none OddorIndifeMelting point/range:  $257 - 263 \ ^{\circ}C (495 - 505 \ ^{\circ}F)$ % Volatile:  $0 \ ^{\circ}$ Density:  $2.1 - 2.2 \ g/cm3$ Water solubility: insolubleLimiting oxygen index: > 95 \ ^{\circ}

#### SECTION 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.	
Conditions to avoid	To avoid thermal decomposition, do not overheat. Abnormally long processing time or high temperatures can produce irritating and toxic f Stable under normal conditions.	umes.
Incompatibility	Powdered metals Finely divided aluminium, potent oxidizers like fluorinand, related compounds	าe (F2),
Hazardous decomposition products	Hazardous thermal decomposition products:: Hydrogen fluoride, Carbo fluoride, Perfluoroisobutylene	onyl
Hazardous reactions	During drying, cleaning and moulding, small amounts of hazardous ga and/or particulate matter may be released. These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases.	ses

#### SECTION 11. TOXICOLOGICAL INFORMATION

Hexafluoropropene/Tetrafluoroethylene copolymer Inhalation 4 h LC50 : > 8 mg/l , rat

> Repeated dose toxicity : Oral rat

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Material Safety Data Sheet FEP Fluoropolymer Resin Version 3.0 Revision Date 06/22/2012 Ref. 15000002335 No toxicologically significant effects were found. Inhalation rat No toxicologically significant effects were found. The substance is a polymer and is not expected to produce toxic Further information : effects. SECTION 12. ECOLOGICAL INFORMATION Aquatic Toxicity Hexafluoropropene/Tetrafluoroethylene copolymer : The substance is a polymer and is not expected to produce toxic effects. Additional ecological information : This product has no known eco-toxicological effects. SECTION 13. DISPOSAL CONSIDERATIONS Waste Disposal : Like most thermoplastic plastics the product can be recycled. If recycling is not practicable, dispose of in compliance with local regulations. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.

# Container Disposal : Remove labels and thoroughly clean containers prior to recycling or reuse.

# Environmental Hazards : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

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Not classified as dangerous	in the meanin	ng of transport regulations.	
SECTION 15. REGULATORY IN	IFORMATION	l	
TSCA Status	: On the	inventory, or in compliance w	vith the inventory
SARA 313 Regulated Chemical(s)	: SARA 3 known establis	313: This material does not co CAS numbers that exceed the shed by SARA Title III, Sectio	ontain any chemical components with e threshold (De Minimis) reporting levels n 313.
California Prop. 65	: WARNI to caus	ING! This product contains a e cancer.Tetrafluoroethylene	chemical known to the State of California
SECTION 16. OTHER INFORMA	ATION		
		NFPA	
Health	:	2	
Flammability	:	1	
Reactivity/Physical hazard	:	0	
Restrictions for use	: Do not us in the hu material consister expressly please co of the Du DuPont (	se DuPont materials in medic man body or contact with inter has been provided from DuPont with DuPont policy regardir y acknowledges the contemp ontact your DuPont represent uPont POLICY Regarding Me CAUTION Regarding Medical	cal applications involving implantation ernal body fluids or tissues unless the ont under a written contract that is ng medical applications and lated use. For further information, tative. You may also request a copy dical Applications H-50103-3 and Applications H-50102-3.
The DuPont Oval Logo is a Before use also read the foll Plastics Industry.	registered trac owing bulletin	demark of E.I. du Pont de Ner (s): Fluoropolymer Safe Hand	mours and Company. dling Guide published by the Society of the
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Contact person

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

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