

FEP Fluoroplastic resin

Version 8.0 Revision Date 22.05.2013

Ref. 15000002330

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

	Product name	: FEP Fluoroplastic resin
	Types	 100, 100 X, 100-J, 100-N, 106-N, 130-J, 140-J, 160-N, 5100-J, 9494-J, 6100, 6100-J, 106 X G1, G3, G7, CJ95, CJ99, CJ 95 X, CJ 99 X, 9302 X, FPD 9852, FPD9848, FPD9849 TE9298, TE9290, TE9302-N, TE9469, TE9475, 9475 X, TE9486, TE9491, TE9494, 9494 X, TE9495, 9495 X, TE9497, TE9808, TE9817, TE9818, TE9820, TE9821, TE9823, TE9824, TE9828, TE9831, TE9832, TE9835, 9835 X, TE9837, TE9838, TE9839, TE9845, TE9846
	Synonyms	: Poly(Hexafluoropropene/Tetrafluoroethylene)
	1.2. Relevant identified use	s of the substance or mixture and uses advised against
	Use of the Substance/Mixture	e Resin for moulding and/or extrusion
	1.3. Details of the supplier	of the safety data sheet
	Company	: Du Pont de Nemours (Nederland) B.V. Baanhoekweg 22 NL-3313 LA Dordrecht Netherlands
	Telephone	: +31-(0)-78-630-1011
	Telefax	: +31-(0)-78-630-1181
	E-mail address	: sds-support@che.dupont.com
	1.4. Emergency telephone	umber
	Emergency telephone number	er : +44 (0) 8456 006 640
-	SECTION 2: Hazards identification	ion
	2.1. Classification of the su	bstance or mixture
	Not a hazardous substance o	or mixture according to Regulation (EC) No. 1272/2008.
	Not a hazardous substance of	or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
	2.2. Label elements	
	Not a hazardous substance	or mixture according to Regulation (EC) No. 1272/2008.
- 1		

1/8



FEP Fluoroplastic resin

Version 8.0 Revision Date 22.05.2013

Ref. 15000002330

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Registration number Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
----------------------------------------------------------------------------	-------------------------------------------------------------------	---------------

Poly(Hexafluoropropene/Tetrafluoroethylene) (CAS-No.25067-11-2)

100 %

3.2. Mixtures

not applicable

The above products are REACH compliant; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

General advice	No hazards which require special first aid measures. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	Remove from exposure, lie down. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician.
Skin contact	Do not peel polymer from the skin. Cool skin rapidly with cold water after contact with molten material. Wash off with soap and water. Consult a physician.
Eye contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion	Not a probable route of exposure. However, in case of accidental ingestion, call a physician.
4.2. Most important s	symptoms and effects, both acute and delayed
Symptoms	: Polymer fume fever
4.3. Indication of any	immediate medical attention and special treatment needed
Treatment	: Treat symptomatically.



433/2010	
EP Fluoroplastic resin	
ersion 8.0 evision Date 22.05.2013	Ref. 15000002330
ECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide (CO2), Dry powder, Foam, Water
5.2. Special hazards arising	from the substance or mixture
Specific hazards during firefighting	: Hazardous thermal decomposition products:
mongrang	: Carbon oxides
	: acid fluorides : Fluorinated compounds
	: Hydrogen fluoride
	: Carbonyl fluoride
	: Exposure to decomposition products may be a hazard to health.
5.3. Advice for firefighters	
Special protective equipment	: In the event of fire, wear self-contained breathing apparatus. Wear suitable
for firefighters	protective equipment. Wear neoprene gloves during cleaning up work after a fire.
Further information	: Protect from hydrogen fluoride fumes which react with water to form hydrofluorid acid.
	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Difficult to ignite, and flame goes out when initiating source is removed.
ECTION 6: Accidental release n	00201/00
	rotective equipment and emergency procedures
Personal precautions	: Ventilate the area. Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.
6.2. Environmental precaution	ons
Environmental precautions	: No special environmental precautions required.
6.3. Methods and materials f	or containment and cleaning up
Methods for cleaning up	: Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
6.4. Reference to other secti	ons
For disposal instructions see s	ection 13.
ECTION 7: Handling and storag	e
ECTION 7: Handling and storag 7.1. Precautions for safe har	



FEP Fluoroplastic resi	n	
Version 8.0 Revision Date 22.05.2013		Ref. 15000002330
Advice on safe handling	:	For personal protection see section 8. When opening containers, avoid breathing vapours that may be emanating. Avoid breathing dust. Avoid contamination of cigarettes or tobacco with dust from this material. General precaution for all plastics and elastomers: 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.
Advice on protection against fire and explosion	:	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
7.2. Conditions for safe sto	orag	ge, including any incompatibilities
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Protect from contamination.
Advice on common storage	:	No special restrictions on storage with other products. Keep away from tobacco products. For further information see Section 10 of the safety data sheet.
Other data	:	Stable under recommended storage conditions.
7.3. Specific end use(s)		
no data available		
SECTION 8: Exposure controls	pei	rsonal protection
8.1. Control parameters		

If sub-section is empty then no values are applicable.

8.2. Exposure controls

Engineering measures	: Ensure adequate ventilation, especially in confined areas. Good general ventilation should be provided to keep dust concentrations below the exposure limits. Local exhaust ventilation should be employed to minimize airborne contamination.	
Eye protection	: Safety glasses with side-shields conforming to EN166	
Hand protection	: When handling hot material, use heat resistant gloves. Protective gloves (Type : Kevlar [®] - heat resistant, use possible until worn out)	
Skin and body protection	: If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.	
Hygiene measures	: 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.	
	4/8	



ersion 8.0	
evision Date 22.05.2013	Ref. 15000002330
Respiratory protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Half mask with a particle filter FFP2/FFP3 (EN149)
ECTION 9: Physical and chemic 9.1. Information on basic phy	
Form	: pellets
Colour	: white, translucent
Odour	: none
Melting point/range	: 257 - 263 °C
Flash point	: Difficult to ignite, and flame goes out when initiating source is removed.
Ignition temperature	: 530 - 550 ℃
Lower explosion limit/ lower flammability limit	: not applicable
Upper explosion limit/ upper flammability limit	: not applicable
Density	: 2.1 - 2.2 g/cm3
Water solubility	: insoluble
9.2. Other information	
no data available	
ECTION 10: Stability and reactive	rity
10.1. Reactivity	: No decomposition if stored and applied as directed.
10.2. Chemical stability	: The product is chemically stable under recommended conditions of storage, us and temperature.
10.3. Possibility of hazardous reactions	: During drying, cleaning and moulding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases. Stable under normal conditions.
10.4. Conditions to avoid	: To avoid thermal decomposition, do not overheat. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Stable under normal conditions.
10.5. Incompatible materials	: Powdered metals Finely divided aluminium



FEP Fluoroplastic resin

Version 8.0 Revision Date 22.05.2013	Ref. 15000002330
	potent oxidizers like fluorine (F2) and related compounds
	: Contact with incompatible materials can cause fire and explosion.
10.6. Hazardous decomposition products	 Hazardous thermal decomposition products may include: Hydrogen fluoride Carbonyl fluoride perfluoroisobutylene acid fluorides Carbon oxides Fluorinated compounds
SECTION 11: Toxicological info	rmation

11.1. Information on toxicological effects

Acute inhalation toxicity

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

 Poly(Hexafluoropropene/Tetrafluoroethylene) LC50 / 4 h rat : > 8 mg/l The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Repeated dose toxicity

 Poly(Hexafluoropropene/Tetrafluoroethylene) Oral rat No toxicologically significant effects were found.

Inhalation rat No toxicologically significant effects were found.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

• Poly(Hexafluoropropene/Tetrafluoroethylene) The substance is a polymer and is not expected to produce toxic effects.

12.2. Persistence and degradability

no data available

12.3. Bioaccumulative potential

no data available



sion 8.0 ision Date 22.05.2013	Ref. 15000002330
12.4. Mobility in soil	
no data available	
12.5. Results of PBT and vPv	vB assessment
no data available	
12.6. Other adverse effects	
Additional ecological information	ation
This product has no known	ecotoxicological effects.
TION 13: Disposal considerat	tions
13.1. Waste treatment metho	ods
Product	: Like most thermoplastic plastics the product can be recycled. If recycling is no practicable, dispose of in compliance with local regulations. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
TION 14: Transport information	on
ADR	
14.1. UN number:	not applicable
14.2. UN proper shipping nam14.3. Transport hazard class(e)	
14.4. Packing group:	not applicable
14.5. Environmental hazards:	none
14.6. Special precautions for u Not classified as danger	iser: ous in the meaning of transport regulations.
IATA C	
14.1. UN number:	not applicable
14.2. UN proper shipping nam	
14.3. Transport hazard class(e	
14.4. Packing group:14.5. Environmental hazards:	not applicable none
14.6. Special precautions for u	iser:
· · · · ·	ous in the meaning of transport regulations.
IMDG 14.1. UN number:	not applicable
14.2. UN proper shipping nam	
14.3. Transport hazard class(e	
14.4. Packing group:	not applicable
14.5. Environmental hazards:	none
14.6. Special precautions for u Not classified as danger	iser: ous in the meaning of transport regulations.
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Version 8.0 Revision Date 22.05.2013

Ref. 15000002330

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Restrictions on use

Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

Further information

The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company. Before use also read the following bulletin(s):, Guide for the Safe Handling of Fluoropolymer Resins published by PlasticsEurope., For further information contact the local DuPont office or DuPont's nominated distributors.

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.