

Version 2.2

Revision Date 06/15/2015 Ref. 150000002330

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 : FEP Fluoroplastic resin

Tradename/Synonym : Poly(Hexafluoropropene/Tetrafluoroethylene)

Product Grade/Type : TE9820, TE9831, TE9828, TE9835 TE9495, TE9290, TE9469, TE9475,

TE9486, TE9491, TE9808, TE9817, TE9818,

100, 100-J, 100-N, 106-N, 130-J, 140-J, 160-N, 5100-J, 6100, 6100-J,

TE9302-N, TE9481-N, TE9497, G1, G3, G7, CJ95, CJ99, TE9494, TE9494-J,

CJ95, CJ99, CJ 95 X, CJ 99 X, 9302 X,

FPD 9852, FPD9848, FPD9849, FEP 100 X, FEP 106 X, FEP 8787, FEP

9290-J, FEP 9861X,

FEP 9898

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,

TE9854, and TE9856

Product Use : Resin for moulding and/or extrusion, For industrial use only.

Restrictions on use : Do not use in medical applications involving permanent implantation in the

human body., See Section 16

Manufacturer/Supplier : DuPont

1007 Market Street Wilmington, DE 19898 United States of America

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)

SECTION 2. HAZARDS IDENTIFICATION



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Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

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

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice : No applicable data available.

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or

combustion. Consult a physician.

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.

: No applicable data available.

Ingestion : Not a probable route of exposure. However, in case of accidental ingestion, call

a physician.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective

equipment.



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Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2), Dry powder, Foam, Water

Unsuitable extinguishing

media

: No applicable data available.

Specific hazards : Hazardous thermal decomposition products:

acid fluorides

Fluorinated compounds Hydrogen fluoride Carbon monoxide

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus. Wear suitable 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

hydrofluoric acid.

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) : Ventilate the area. Material can create slippery conditions.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

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 applicable data available.



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SECTION 7. HANDLING AND STORAGE

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. Wash hands and face before breaks and immediately after handling the

product. Do not contaminate tobacco products.

Handling (Physical Aspects)

Dust explosion class

Storage

No applicable data available.No applicable data available.

Keep container tightly closed in a dry and well-ventilated place. Protect from

contamination.

Stable under recommended storage conditions.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : 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.

Personal protective equipment

Respiratory protection

: When workers are facing concentrations above the exposure limit they must

use appropriate certified respirators.

Hand protection : Additional protection: Protective gloves (Type : Kevlar® - heat resistant, use

possible until worn out)

Eye protection : Safety glasses with side-shields

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant

clothing and footwear.

Regular cleaning of equipment, work area and clothing.



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Exposure Guidelines
Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

Non-Constituent(s)

Dust (inhalable and respirable fraction)

Permissible (OSHA) 5 mg/m3 8 hr. TWA Respirable fraction.

exposure limit:

Permissible (OSHA) 15 mg/m3 8 hr. TWA Total dust.

exposure limit:

TLV (ACGIH) 3 mg/m3 TWA Respirable particles.

TLV (ACGIH) 10 mg/m3 TWA Inhalable particles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid Form : pellets

Color : white, translucent

Odor : none

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/freezing point : Melting point/range

257 - 263 °C (495 - 505 °F)

Boiling point/boiling range : No applicable data available.

Flash point : Difficult to ignite, and flame goes out when initiating source is removed.



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Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Density : 2.1 - 2.2 g/cm3

Specific gravity (Relative

density)

No applicable data available.

Water solubility : insoluble

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

Auto-ignition temperature : 520 - 560 °C

Ignition temperature : 530 - 550 °C

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

% Volatile : 0 %

Limiting oxygen index : > 95 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

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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.

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.

Incompatible materials : Powdered metals Finely divided aluminium, potent oxidizers like fluorine (F2),

and, related compounds

Hazardous decomposition

products

: Hazardous thermal decomposition products:: Hydrogen fluoride, Carbonyl

fluoride, Perfluoroisobutylene

SECTION 11. TOXICOLOGICAL INFORMATION

FEP Fluoroplastic resin

Further information : The product contains no substances classified as hazardous to health

in concentrations which should be taken into account.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : The product contains no substances classified as hazardous to the

environment in concentrations which should be taken into account.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product

: 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

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acidic combustion products.

Waste disposal methods -

Container

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

Contaminated packaging : Empty containers should be taken to an approved waste handling site for

recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory

SARA 313 Regulated

Chemical(s)

: 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 : WARNING! This product contains a chemical known to the State of California

to cause cancer. Tetrafluoroethylene

SECTION 16. OTHER INFORMATION

NFPA

Health : 2

Flammability : 1

Reactivity/Physical hazard : 0

Restrictions for use : Do not use DuPont materials in medical applications involving implantation

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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 and DuPont CAUTION Regarding Medical Applications.

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): Fluoropolymer Safe Handling Guide published by the Society of the Plastics Industry.

Revision Date : 06/15/2015

Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE

19898, (800) 441-7515

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.

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