

Printing date 25.09.2012

Revision: 25.09.2012

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

- **Product identifier**
- **Trade name:** *NEOFLON ETFE EP-521,522,541,543,565,610,620,7000*
- **Article number:** *EP*
- **CAS Number:**
94228-79-2
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** *Synthetic resin*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*DAIKIN INDUSTRIES, LTD. CHEMICAL DIVISION:
Umeda Center Bldg., 4-12, Nakazaki-Nishi2-chome, Kita-Ku, Osaka, JAPAN
Phone: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281
DAIKIN AMERICA, INC.
20 Olympic Drive, Orangeburg, New York 10962
Phone: +1-800-365-9570
DAIKIN INDUSTRIES, LTD. CHEMICAL DIVISION
Coating Materials Business Promotion Department
1-1 nishi hitotsuya, Settsu, Osaka, 566-8585, JAPAN
Phone: (+81) 6-6349-8254, FAX; (+81)6-6349-8734
DAIKIN FLUOROCHEMICALS(CHINA) CO.,LTD.
Changshu International Chemical Industrial Park Haiyu Town,
Changshu, Jiangsu 215522, China
Phone: +86-512-5232-2266*
- **Further information obtainable from:** *sales@daikinchem.de*
- **Emergency telephone number:** *+49-211-179 225-0 / office hour, +1-256-306-5000, +81-6-6349-7521*

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified according to the CLP regulation.
- **Signal word** *Not applicable*

3 Composition/information on ingredients

- **Chemical characterization:** *Substances*
- **CAS No. Description**
94228-79-2 ETFE

4 First aid measures

- **Description of first aid measures**
- **General information:** *Seek immediate medical advice.*
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:**
*Immediately wash with water and soap and rinse thoroughly.
After contact with the molten product, cool rapidly with cold water.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*
- **Information for doctor:**
Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** *none*
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.

Safety data sheet

Printing date 25.09.2012

Revision: 25.09.2012

Trade name: **NEOFLON ETFE EP-521,522,541,543,565,610,620,7000**

- **Advice for firefighters**
- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Extractors are required on all machines used for thermal processing or splinter removal processes.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from contamination.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Keep away from tobacco products.
- **Respiratory protection:**
For conditions where exist a potential for significant exposure to fumes and/or toxic vapours use a full-face-mask with the acid and organic vapor cartridges.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Synthetic rubber gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Pellets
Colour:	Whitish
Odour:	Odourless
- **Change in condition**

Melting point/Melting range:	210-270°C
-------------------------------------	-----------

Safety data sheet

Printing date 25.09.2012

Revision: 25.09.2012

Trade name: **NEOFLON ETFE EP-521,522,541,543,565,610,620,7000**

- **Boiling point/Boiling range:** *Undetermined.*
- **Flash point:** *Not applicable.*
- **Flammability (solid, gaseous):** *Product is not flammable.*
- **Decomposition temperature:** *356,5°C (1%TG)*
- **Danger of explosion:** *Product does not present an explosion hazard.*
- **Density:** *1,70-1,88 g/cm³*
- **Solubility in / Miscibility with water:** *Insoluble.*
- **Other information** *No further relevant information available.*

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
*To avoid thermal decomposition do not overheat.
Even at the temperatures reached during the normal hot processing of fluoropolymers fume will be generated, that will present a potential health hazard.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *Danger of toxic fluorine based pyrolysis products.*

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** *no data*
- **Additional toxicological information:**
*When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.*

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Other information:** *The product is insoluble in water and the biodegradation and ecotoxicity is expected to be low.*
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
*Incineration in an adequate incinerator is recommended.
Disposal must be made according to EU, national and local regulation.*
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

Safety data sheet

Printing date 25.09.2012

Revision: 25.09.2012

Trade name: **NEOFLON ETFE EP-521,522,541,543,565,610,620,7000**

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · ADR, ADN, IMDG, IATA | Not applicable |
| · UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Not applicable |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Not applicable |
| · Packing group | |
| · ADR, IMDG, IATA | Not applicable |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **National regulations:**
TSCA INVENTORY: All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Toxicology and Product Regulatory
- **Contact:** sales@daikinchem.de
- **Abbreviations and acronyms:**
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)