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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** NEOFLON ETFE EC-6820**Article number:** 6820**1.2 Relevant identified uses of the substance or mixture and uses advised against:***No further relevant information available.***1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:****DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION:***Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome, Kita-Ku, Osaka, JAPAN**Phone: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281***Further information obtainable from:** <http://www.daikin.com/>**1.4 Emergency telephone number:***Japan: +81-6-6349-7521**China: +86-512-5-232-0949, +86-21-34151689**South Korea: +82-2-568-1722**Americas: +1-256-306-5000**Europe: +49-211-179 225-0**+82-2-568-1722***SECTION 2: Hazard identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008***The substance is not classified according to the CLP regulation.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008:** Not applicable**Signal word:** Not applicable**SECTION 3: Composition/information on ingredients****Information on ingredients:**

94228-79-2 ETFE

≥99%

SECTION 4: First aid measures**4.1 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 a doctor.**4.2 Most important symptoms and effects, both acute and chronic:** No further relevant information available.**Information for doctor:***Vapors and fumes liberated during hot processing with this material may cause flu-like symptoms (chills, fever and, sometimes, cough) that may not occur until several hours after exposure and typically pass within about 36 to 48 hours.***4.3 Indication of any immediate medical attention and special treatment needed:***No further relevant information available.***SECTION 5: Firefighting measures****5.1 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

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Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters:

Protective equipment: Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective clothing.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections: No dangerous substances are released.

* **SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

Extractors are required on all machines used for thermal processing or powder handling processes.

Keep away from heat and direct sunlight.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:**Storage**

Requirements to be met by storerooms and receptacles: Store in a cool and dry location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Protect from contamination.

Protect from heat and direct sunlight.

Store containers in a well ventilated area.

Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

8.2 Exposure controls**Personal protective equipment****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Keep away from tobacco products.

Respiratory protection:

For conditions with a potential for significant exposure to fumes and/or toxic vapours, use a full-face-mask with the acid and organic vapor cartridges.

Use mask which filters at least 99.95% of airborne particles(below 0.3µm)

Protection of hands: Synthetic rubber gloves

Material of gloves: Rubber

Eye protection:

Safety glasses

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance**

Form:

Pellets

Colour:

Whitish

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Trade name: NEOFLON ETFE EC-6820**Odour:***Odourless***pH-value:***Not applicable.***Melting point/Melting range:***210-230 °C***Boiling point/Boiling range:***No further information available.***Flash point:***Not applicable.***Flammability (solid, gaseous):***Product is not flammable.***Decomposition temperature:***No further information available.***Danger of explosion:***Product does not present an explosion hazard.***Explosion limits:***Not applicable.***Lower explosive limit:***Product does not present an explosion hazard.***Upper explosive limit:***Product does not present an explosion hazard.***Vapour pressure:***Not applicable.***Density:***No further information available.***Solubility in / Miscibility with****water:***Insoluble.***Partition coefficient (n-octanol/water):** *Not applicable.***9.2 Other information:** *No further relevant information available.*

SECTION 10: Stability and reactivity

10.1 Reactivity *No further relevant information available.***10.2 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 that presents a potential health hazard may be generated.***10.3 Possibility of hazardous reactions:** *No dangerous reactions known.***10.4 Conditions to avoid:** *No further relevant information available.***10.5 Incompatible materials:** *Alkali or alkaline earth metals - powdered Al, Zn, Mg, etc.***10.6 Hazardous decomposition products:** *Danger of toxic fluorine based pyrolysis products.*

SECTION 11: Toxicological information

11.1 Information on toxicological effects**Acute toxicity** *no data***LD/LC50 values relevant for classification:** *No further information available.***Primary irritant effect****Skin corrosion/irritation** *Based on available data, the classification criteria are not met.***Serious eye damage/irritation** *Based on available data, the classification criteria are not met.***Respiratory or skin sensitisation***No sensitising effects known.**Based on available data, the classification criteria are not met.***CMR effects****Germ cell mutagenicity** *Based on available data, the classification criteria are not met.***Carcinogenicity** *Based on available data, the classification criteria are not met.***Reproductive toxicity** *Based on available data, the classification criteria are not met.***STOT-single exposure** *Based on available data, the classification criteria are not met.***STOT-repeated exposure** *Based on available data, the classification criteria are not met.***Aspiration hazard** *Based on available data, the classification criteria are not met.***Chronic study** *No further information available.*

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:** *No further relevant information available.*

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Trade name: NEOFLON ETFE EC-6820**12.2 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.**12.3 Bioaccumulative potential:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** No further relevant information available.**vPvB:** No further relevant information available.**12.6 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number:

ADR, ADN, IMDG, IATA Not applicable

14.2 UN proper shipping name:

ADR, ADN, IMDG, IATA Not applicable

14.3 Transport hazard class(es):

ADR, ADN, IMDG, IATA**Class:** Not applicable

14.4 Packing group:

ADR, IMDG, IATA Not applicable

14.5 Environmental hazards:

Marine pollutant: No**14.6 Special precautions for user:** Not applicable.

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.**Transport/Additional information:** Not dangerous according to the above specifications.**UN "Model Regulation":** -

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 Not applicable**Hazard pictograms** Not applicable**Signal word** Not applicable**Hazard statements** Not applicable

SECTION 16: Other information

The product is for the industrial use only. We do not guarantee the safety in case the product is used for the other purposes. When using the product for health-care application or food/feed application, consult us in advance.

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.

Contact: <http://www.daikin.com/>

Abbreviations and acronyms:

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 Harmonised System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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Trade name: NEOFLON ETFE EC-6820*vPvB: very Persistent and very Bioaccumulative*** Data compared to the previous version altered.*