

Printing date 30.10.2017

Revision: 30.10.2017

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

#### 1.1 Product identifier

Trade name: <u>NEOFLON FEP NC-1515</u> Article number: NC1515 **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

## **SECTION 2: Hazard identification**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product 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
Additional information:
EUH208 Contains 4-(1-Methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]aniline, Cobalt. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

### SECTION 3: Composition/information on ingredients

#### Information on ingredients:

CAS: 25067-11-2	? Perfluoro(ethylene-propene) copolymer	≥90%
CAS: 1308-38-9	Dichromium trioxide	<5%
CAS: 7440-48-4	Cobalt Xn R42/43 R53 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 4, H413	<5%
Others <b>Additional information:</b> For the wording of the listed hazard phrases refer to section 16.		

### **SECTION 4:** First aid measures

### 4.1 Description of first aid measures

General information: Seek medical treatment.

*After inhalation:* In case of inhaling decomposed gases: supply fresh air and consult a 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.

Consult a doctor in case of complaints.



Version number 1

Printing date 30.10.2017

Trade name: NEOFLON FEP NC-1515

After eye contact:
Rinse opened eye for several minutes under running water.
Consult an ophthalmologist in case of complaints.
After swallowing: If symptoms persist consult a doctor.
4.2 Most important symptoms and effects, both acute and chronic: No further relevant information available.
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: Use fire extinguishing methods suitable for surrounding conditions.
For safety reasons unsuitable extinguishing agents: No further information available.
5.2 Special hazards arising from the substance or mixture:
Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters:
Protective equipment:
Wear self-contained breathing apparatus and protective suit.
Do not inhale explosion gases or combustion gases.

# **SECTION 6:** Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation before entering the area.
Keep out unauthorized persons.
Wear appropriate protective devices (See Section 8 Exposure Controls/Personal Protection).
Avoid contact with eyes and skin.
Do not swallow the product.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.
6.3 Methods and material for containment and cleaning up:
Dispose of the material collected according to regulations.
6.4 Reference to other sections:
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

# SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Extractors are required on all machines used for thermal processing or powder handling processes. Do not handle until all safety precautions have been read and understood. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. 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: No further information available. See section 10 for information on incompatible materials. Further information about storage conditions: Protect from heat and direct sunlight. Store containers in a well ventilated area. 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 No further information available.

Revision: 30.10.2017



Printing date 30.10.2017

Version number 1

Revision: 30.10.2017

Page 3/6

Trade name: NEOFLON FEP NC-1515

Ingredients with limit values that require monitoring at the workplace:

CAS: 1308-38-9 Dichromium trioxide

IOELV (EU) Long-term value: 2 mg/m<sup>3</sup> as Cr Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls Personal protective equipment General protective and hygienic measures: Wash hands before breaks and at the end of work. Do not eat or drink while working. Keep away from tobacco products.

# Respiratory protection:

Use respiratory protective device with filters for organic and acid gas (or airline respirators in some cases), if the product is heated above 205  $^{\circ}C$  and toxic gases is formed. Dust respirator, simplified dust respirator **Protection of hands:** 



Protective gloves

### Material of gloves: Rubber

Penetration time of glove material

*The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection:* 



Safety glasses

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and General Information	chemical properties
Appearance Form: Colour: Odour:	Powder Green Odourless
pH-value: Melting point/freezing point: Initial boiling point and boiling range.	No further information available. No further information available. No further information available.
Flash point:	Not applicable.
Explosion limits: Lower explosive limit: Upper explosive limit:	No further information available. No further information available.
Vapour pressure:	No further information available.
Density:	No further information available.
Solubility in / Miscibility with water:	No further information available.
Partition coefficient: n-octanol/water: 9.2 Other information:	No further information available. No further relevant information available.



Version number 1

Revision: 30.10.2017

Printing date 30.10.2017

Trade name: NEOFLON FEP NC-1515

# 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.
10.3 Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.
10.4 Conditions to avoid: Keep away from heat, sparks, flame, high temperature.
10.5 Incompatible materials:
Metal powder (e.g. Al, Mg) and fluorine oxidizer. There is a danger of chemical reactions that could cause fire or explosion when the product is heated with them.
10.6 Hazardous decomposition products:
As for decomposition products, particulate matters and extremely toxic/corrosive fumes may be generated

(HF, carbonyl fluoride, monomers, perfluoroisobutylene). Decomposition products differ depending on the temperature and conditions.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification: No further information available.
Primary irritant effect
Skin corrosion/irritation No further information available.
Serious eye damage/irritation No further information available.
after inhalation: No further information available.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Additional toxicological information:
General effects:
Fumes generated during burning may cause "polymer fume fever" (flu-like symptons such as fever, chill, cough).
This may last for a whole day and night.
Fumes are not absorbed in skin. No sensitizing effect known.

Low concentration of hydrogen fluoride may cause feeling of dyspnea, cough, irritation in eyes, nose, throat, fever, chill for 1-2 days.

After that, dyspnea, cyanosis and pulmonary edema may be seen. High concentration of hydrogen fluoride damages liver and kidney.

Effects of carbonyl fluoride: Skin: Irritation or eruption Eye: Ulcer in cornea, conjunctiva Respiratory system: Irritation Lung: Temporary symptons such as cough, pain, dyspnea Persons who have experienced lung diseases are vulnerable to toxicity caused by excessive exposure to pyrolysis products CMR effects 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.

12.2 Persistence and degradability: The product is thought to be non-biodegradable.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.



Version number 1

Printing date 30.10.2017

Trade name: NEOFLON FEP NC-1515

Ecotoxical effects: no data
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: Landfill disposal is recommended. In case of incineration, the temperature must be higher than 800 °C. Treat exhaust gas such as HF in a suitable way. Disposal must be made according to official regulations.

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:	Avoid direct sunlight. Make sure of no damage, corrosion, leaks on		
	the receptacles.		
	Take necessary measures for preventing cargo shift.		
UN "Model Regulation":	Not applicable		

**SECTION 15: Regulatory information** 

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. Labelling according to Regulation (EC) No 1272/2008 Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable

*National regulations* No further information available. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

# **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.

Department issuing SDS: EHS Department

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)

Revision: 30.10.2017



Printing date 30.10.2017

Version number 1

Revision: 30.10.2017

### Trade name: NEOFLON FEP NC-1515

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

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.