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

- **Product details**
- **Trade name:** NEOFLON EFEP RC-4520
- **Article number:** 4520
- **Application of the substance / the preparation**
Synthetic resin
Coating compound/ Surface coating/ paint
- **Manufacturer/Supplier:**
DAIKIN INDUSTRIES, LTD.CHEMICAL DIVISION:
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- **Further information obtainable from:** <http://www.daikin.com/>
- **Information in case of emergency:** +81-6-6349-7521, +1-256-306-5000, +86-512-5232-0973, +49-211-179 225-0

2 Hazards identification

- **GHS label elements** Void

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
Fluoro polymer

4 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:**
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.

5 Fire-fighting measures

- **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 caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

(Contd. on page 2)
JP

Safety Data Sheet

Printing date 22.07.2009

Revision: 22.07.2009

Trade name: NEOFLON EFEP RC-4520

(Contd. of page 1)

- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information 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.
- **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.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **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 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:** Synthetic rubber gloves
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

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

Melting point/Melting range:	155-175°C
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.

JP

(Contd. on page 3)

Safety Data Sheet

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Revision: 22.07.2009

Trade name: NEOFロン EFEP RC-4520

(Contd. of page 2)

10 Stability and reactivity

- **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.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** Danger of toxic fluorine based pyrolysis products.

11 Toxicological information

- **Acute toxicity:** no data

12 Ecological information

- **Information about elimination (persistence and degradability):**

- **Other information:** The product is insoluble in water and the biodegradation and ecotoxicity is expected to be low.

- **Ecotoxicological effects:** no data

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation** Disposal must be made according to official regulations.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN "Model Regulation":** -

15 Regulatory information

- **Safety phrases:**

15 Keep away from heat.

21 When using do not smoke.

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:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)