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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** POLYFLON PTFE F-104,201,205,208,302**Article number:** 104**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

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**Further information obtainable from:** <http://www.daikin.com/>**1.4 Emergency telephone number:** +86-512-5232-0949**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:**

9002-84-0 Polytetrafluoroethylene

100%

**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:****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:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**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 fully protective suit.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:** Not required.**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:** Pick up mechanically.**6.4 Reference to other sections:** No dangerous substances are released.

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**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.***7.2 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.***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.**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.**Keep away from tobacco products.***Respiratory protection:***Use mask which filters at least 99.95% of airborne particles (below 0.3µm)**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.***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:** Powder  
**Colour:** White  
**Odour:** Odourless**pH-value:** No further information available.**Melting point/freezing point:** 320-330 °C**Initial boiling point and boiling range:** No further information available.**Flash point:** Not applicable.**Flammability (solid, gas):** Product is not flammable.**Decomposition temperature:** 480-490 °C (0.1%TG)**Explosive properties:** Product does not present an explosion hazard.**Explosion limits:****Lower explosive limit:** No further information available.**Upper explosive limit:** No further information available.**Vapour pressure:** -

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**Density:** 2,1-2,2 g/cm<sup>3</sup>

**Solubility in / Miscibility with water:** Insoluble.

**Partition coefficient: n-octanol/water:** No further information available.

**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:**

Even at the temperatures reached during the normal hot processing of fluoropolymers, fume that presents a potential health hazard may be generated.

To avoid thermal decomposition do not overheat.

**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:

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** no data

**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** No further information available.

#### CMR effects

**Germ cell mutagenicity** No further information available.

**Carcinogenicity** No further information available.

**Reproductive toxicity** No further information available.

**STOT-single exposure** No further information available.

**STOT-repeated exposure** No further information available.

**Aspiration hazard** No further information available.

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

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**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****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.

**Department issuing SDS:** EHS Department**Contact:** <http://www.daikin.com/>**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 Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (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 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