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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: POLYFLON MPA FA-500H****Article number: 5012****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. Chemical R&D Center
1-1 nishi hitotsuya, Settsu, Osaka, 566-8585, JAPAN
Phone: (+81) 6-6349-5332

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 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.

In case of inhaling product dust, clean mouth with water and drink afterwards plenty of water.

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.**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.**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.

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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.

* **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.
 Ensure good ventilation/exhaustion at the workplace.
 Do not handle until all safety precautions have been read and understood.
 Do not inhale polymer dust
- 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.
 Avoid contact with the skin.
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/Melting range:	320-330 °C
Boiling point/Boiling range:	No further information available.

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Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	470 °C (0.1%TG)
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	Not applicable.
Lower explosive limit:	No data
Upper explosive limit:	No data
Vapour pressure:	Not applicable.
Density at 25 °C:	2,1 g/cm ³
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: To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

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 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.

Respiratory or skin sensitisation No further information available.

CMR effects

Carcinogenicity Based on available data, the classification criteria are not met.

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 slightly biodegradable.

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.

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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****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:**

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

*** Data compared to the previous version altered.**