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.
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

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 0.3 µm)
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.
42.0.1 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/cm³
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.
**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 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.