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

1.1 Product identifier

**Trade name:** POLYFLON PTFE LOW POLYMER LDW-410  
**Article number:** LDW410

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

**SECTION 3: Composition/information on ingredients**

**Information on ingredients:**  
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>9002-84-0 Polytetrafluoroethylene</td>
<td>35-45%</td>
</tr>
<tr>
<td>Polyoxyethene glycol alkyl ether</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Acute Tox. 4, H302</td>
<td></td>
</tr>
<tr>
<td>7732-18-5 Water</td>
<td>55-65%</td>
</tr>
<tr>
<td>Others</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

**Additional information:** 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:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:**  
Remove contaminated clothes immediately.  
Immediately wash with water and soap and rinse thoroughly.  
Consult a doctor in case of complaints.  
**After eye contact:**  
Immediately rinse with a lot of water for several minutes. Remove contact lenses if possible. Continue rinsing.  
Consult an ophthalmologist in case of complaints.  
**After swallowing:**  
Rinse mouth with water. Do not induce vomiting.  
Consult a doctor in case of complaints.

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: Prevent seepage into sewage system, workpits and cellars.

6.3 Methods and material for containment and cleaning up:
For a small amount of leakage: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) or collect in an empty container that can be sealed tightly.
For a large amount of leakage: Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect.

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.
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.
Provide solvent resistant, sealed floor.
Keep containers tightly sealed.

Information about storage in one common storage facility:
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.
Store locked up.

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.
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
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 formation of toxic gases is possible while the product is heated.
Use respiratory protective device with organic gas cartridge.

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 chemical properties

General Information

Appearance
Form: Liquid
Colour: Whitish
Odour: Ammonia-like

pH-value: 8-10

Melting point/freezing point: No further information available.
Initial boiling point and boiling range: ca. 100 °C (Water)

Flash point: Not applicable.

Explosion limits:
Lower explosive limit: No further information available.
Upper explosive limit: No further information available.

Vapour pressure: No further information available.

Density at 25 °C: 1.2-1.4 g/cm³

Solubility in / Miscibility with water: Fully miscible.

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 under normal conditions of use.

10.4 Conditions to avoid: Keep away from heat, sparks, flame, high temperature.
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: Based on available data, the classification criteria are not met.
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 symptoms such as fever, chill, cough). This may last for a whole day and night.
Fumes are not absorbed in skin. No sensitizing effect known.

Effects of hydrogen fluoride:
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 symptoms 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: No further relevant information available.
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.
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

14.4 Packing group:
ADR, IMDG, IATA  Not applicable

14.5 Environmental hazards:
ADR, IMDG, IATA

14.6 Special precautions for user:
ADR, IMDG, IATA  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

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)
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