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

1.1 Product identifier
Trade name: POLYFLON PTFE EK-3708S21R
Article number: EK3708S21R

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
Additional information: EUH210 Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

Information on ingredients:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>9002-84-0</td>
<td>Polytetrafluoroethylene</td>
<td>30-40%</td>
</tr>
<tr>
<td></td>
<td>Polyoxyethylene glycol alkyl ether</td>
<td>1-10%</td>
</tr>
<tr>
<td>1336-21-6</td>
<td>Ammonia</td>
<td>&lt;5%</td>
</tr>
<tr>
<td></td>
<td>Skin Corr. 1B, H314</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400</td>
<td></td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>Silicon dioxide</td>
<td>&lt;5%</td>
</tr>
<tr>
<td></td>
<td>Cobalt Blue</td>
<td>&lt;5%</td>
</tr>
<tr>
<td></td>
<td>Compound containing the zinc oxide</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>35-45%</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>5-15%</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: Grey
Odour: Ammonia-like
Section 4.0 Uses

4.1 Uses

The substance is used in the following purposes:

- As a material for the production of various types of industrial equipment.
- In the manufacturing of various types of industrial components.
- In the production of various types of industrial products.

4.2 Safe handling

- Always wear appropriate personal protective equipment when handling the substance.
- Keep the substance away from heat, sparks, flame, and high temperature.
- Avoid contact with skin, eyes, and mouth.

4.3 Storage

- Store the substance in a cool, dry, well-ventilated area.
- Keep the substance away from incompatible materials.
- Store the substance in its original container.

4.4 Disposal

- Ensure proper disposal of the substance in accordance with local regulations.
- Avoid releasing the substance into the environment.

Section 5.0 Amendment information

- This safety data sheet has been updated on 11.03.2019.
- The next update is scheduled for 11.03.2020.

Section 6.0 Declaration

- The information provided in this safety data sheet is accurate to the best of our knowledge.
- The manufacturer takes no responsibility for the accuracy of information provided by third parties.

Section 7.0 Additional information

- Additional information is available upon request.
- Any questions or concerns should be directed to the manufacturer.

Section 8.0 References

- Refer to the manufacturer's technical documentation for additional information.
- Refer to the manufacturer's environmental impact assessment for further details.

Section 9.0 Further information

- For further information, contact the manufacturer.
- Additional resources are available upon request.
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.

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### 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.

**Ecotoxicical effects: no data**

#### 12.5 Results of PBT and vPvB assessment

**PBT:**

No further relevant information available.

Not applicable.

**vPvB:**

No further relevant information available.

Not applicable.

#### 12.6 Other adverse effects: No further relevant information available.

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### SECTION 13: Disposal considerations

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

#### Uncleaned packaging

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

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### 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
No further relevant information available.
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:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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.