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Revision: 19.10.2022

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

#### 1.1 Product identifier

 Trade name: POLYFLON PTFE D-210C

 Article number: D210C

 1.2 Relevant identified uses of the substance or mixture and uses advised against:

 Sector of Use SU8
 Manufacture of bulk, large scale chemicals (including petroleum products)

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION: OSAKA UMEDA TWIN TOWERS SOUTH, 1-13-1 Umeda, Kita-ku, Osaka-shi, Osaka, 530-0001, Japan Phone:+81-6-6147-9702 Fax:+81-6-6147-9807

Further information obtainable from:

http://www.daikin.com/ sales@daikinchem.de **1.4 Emergency telephone number:** Japan: +81-6-6349-7521 China: +86-532-8388-9090, +86-21-34151689 South Korea: +82-2-568-1722 Americas: CHEMTREC +1-800-424-9300 (Outside US/Canada: +1-703-527-3887) 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: CAS: 9002-84-0 Polytetrafluoroethylene 55-65% Polyoxyethene glycol alkyl ether <5% CAS: 7732-18-5 Water 30-40%

Others 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.



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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 fully protective suit. 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. Prevent any seepage into the ground. 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

8.1 Control parameters No further information available.



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*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

Appropriate engineering controls No further data; see item 7. Individual protection measures, such as 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.

Hand protection



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/face protection** 



Safety glasses

Body protection: Protective work clothing

### **SECTION 9:** Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical stateFluidColour:WhitishOdour:Ammonia-likeOdour threshold:Not determined.Melting point/freezing point:Undetermined.Boiling point or initial boiling point and boiling range100 °CFlammabilityNot applicable.Lower and upper explosion limitNot further information available.Upper explosive limit:No further information available.Upper explosive limit:Not determined.Flash point:Not determined.Pd at 20 °C9Viscosity:Not determined.Kinematic viscosityNot determined.Dynamic:Not determined.SolubilityNot determined.water:No further information available.Partition coefficient n-octanol/water (log value)No further information available.Napour pressure:No further information available.Not gurt prisesure:No further information available.	General Information	
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Not determined.		Not determined.
	Partition coefficient n-octanol/water (log value)	No further information available.
Vapour pressure:No further information available.		Not determined.
	Vapour pressure:	No further information available.



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Density and/or relative density	
Density at 20 °C:	$1.5 \text{ g/cm}^3$
	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Particle characteristics	No further information available.
9.2 Other information:	
Form:	Liquid
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Evaporation rate	Not determined.
Information with regard to physical hazard cla	sses
Explosives	Not applicable
-	<i>Not applicable</i>
Flammable gases	<i>Not applicable</i>
0	<i>Not applicable</i>
Aerosols	<i>Not applicable</i>
	<i>Not applicable</i>
Oxidising gases	<i>Not applicable</i>
	<i>Not applicable</i>
Gases under pressure	<i>Not applicable</i>
	Not applicable
Flammable liquids	<i>Not applicable</i>
2	<i>Not applicable</i>
Flammable solids	Not applicable
	Not applicable
Self-reactive substances and mixtures	Not applicable
v	Not applicable
Pyrophoric liquids	Not applicable
~	Not applicable
Pyrophoric solids	Not applicable
	<i>Not applicable</i>
Self-heating substances and mixtures	Not applicable
, , , ,	Not applicable
Substances and mixtures, which emit flammab	
in contact with water	Not applicable
	Not applicable
Oxidising liquids	Not applicable
	Not applicable
Oxidising solids	Not applicable
5	Not applicable
Organic peroxides	Not applicable
- •	<i>Not applicable</i>
Corrosive to metals	<i>Not applicable</i>
	<i>Not applicable</i>
Desensitised explosives	<i>Not applicable</i>
*	<i>Not applicable</i>

# 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.

10.5 Incompatible materials: No further relevant information available.



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## 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 hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification: No further information available. Skin corrosion/irritation No further information available. Based on available data, the classification criteria are not met. Serious eye damage/irritation No further information available. Based on available data, the classification criteria are not met. after inhalation: No further information available. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. 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. Other information (about experimental toxicology): No further information available. Subacute to chronic toxicity No further information available. 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 11.2 Information on other hazards Endocrine disrupting properties

None of the ingredients is listed.

## 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 information available.



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12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
12.7 Other adverse effects: Ecotoxical effects: no data

### **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Recommendation: 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 or ID 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 Maritime transport in bulk according to IMO		
instruments	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/ sales@daikinchem.de www.daikinchem.de

#### 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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)



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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.