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Version number 1

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: POLYFLON PTFE TC-7400CR****Article number: 7400CR****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:

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/>**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**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

Signal word: Danger**Hazard-determining components of labelling:**

Binder

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR

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

Information on ingredients:

| | | |
|-----------------|--|--------|
| CAS: 9002-84-0 | Polytetrafluoroethylene | <5% |
| | Binder | 35-45% |
| | Aquatic Chronic 2, H411 | |
| | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | |
| | Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % | |
| | Skin Irrit. 2; H315: C ≥ 5 % | |
| CAS: 108-10-1 | Methyl isobutyl ketone | 35-45% |
| | Flam. Liq. 2, H225 | |
| | Carc. 2, H351 | |
| | Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336 | |
| | EUH066 | |
| | ATE: LC50/4h inhalative: 11 ppm | |
| CAS: 64742-94-5 | Solvent naphtha (petroleum), heavy arom. | 1-10% |
| | Asp. Tox. 1, H304 | |
| CAS: 111-76-2 | 2-Butoxyethanol | 1-10% |
| | Acute Tox. 3, H311 | |
| | Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | |
| | ATE: LD50 oral: 1200 mg/kg | |
| CAS: 123-42-2 | 4-Hydroxy-4-methylpentan-2-one | <5% |
| | Flam. Liq. 3, H226 | |
| | Eye Irrit. 2, H319 | |
| | Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 % | |
| CAS: 71-23-8 | 1-Propanol | <5% |
| | Flam. Liq. 2, H225 | |
| | Eye Dam. 1, H318 | |
| | STOT SE 3, H336 | |
| CAS: 107-98-2 | 1-Methoxy-2-propanol | <5% |
| | Flam. Liq. 3, H226 | |
| | STOT SE 3, H336 | |
| | Reaction mass of ethylbenzene and xylene | < 5% |
| | Flam. Liq. 3, H226 | |
| | STOT RE 2, H373; Asp. Tox. 1, H304 | |
| | Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |
| | ATE: LD50 dermal: 1100 mg/kg | |
| | LC50/4h inhalative: 29 ppm | |
| CAS: 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 5-15% |
| | Eye Irrit. 2, H319 | |
| | Others | 5-15% |

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 and to be sure call for a doctor.

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothes immediately.

After eye contact:

Immediately rinse with a lot of water for several minutes. Remove contact lenses if possible. Continue rinsing.

After swallowing: *Rinse mouth with water. Do not induce vomiting.*

4.2 Most important symptoms and effects, both acute and chronic: *Allergic reactions*

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:**

Water haze

Water spray

Alcohol resistant foam

Fire-extinguishing powder

Dry sand

CO₂

For safety reasons unsuitable extinguishing agents: *Water with full jet*

5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

Receptacle may explode when heated.

Extremely flammable; can ignite easily with heat, sparks, fire.

5.3 Advice for firefighters:

The flash point is extremely low: water spray can be used for a large fire only if other extinguishing means have no effect.

Remove receptacles from area of fire if possible.

Protective equipment:

Wear self-contained breathing apparatus and protective suit.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation before entering the area.

Stay on the windward side.

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:

Do not flush with water or aqueous cleansing agents

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 small amount of leakage: Use clean anti-static tools when absorbing the product.

For a large amount of leakage: Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect.

Remove ignition sources immediately.

There is a danger of explosion. Prepare fire extinguisher in case of emergency.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR

SECTION 7: Handling and storage**7.1 Precautions for safe handling:**

Open and handle receptacle with care.

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Handle with care. Avoid jolting, friction and impact.

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.

Protect against electrostatic charges.

Use flame proof electric/lighting devices and ventilation equipment.

Ground/bond container and receiving equipment.

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.

Keep containers tightly sealed.

Information about storage in one common storage facility:

Store away from oxidising agents.

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.

Ingredients with limit values that require monitoring at the workplace:**CAS: 108-10-1 Methyl isobutyl ketone**

OEL (Japan) Long-term value: 200 mg/m³, 50 ppm

PEL (USA) Long-term value: 410 mg/m³, 100 ppm

REL (USA) Short-term value: 300 mg/m³, 75 ppm

Long-term value: 205 mg/m³, 50 ppm

TLV (USA) Short-term value: 307 mg/m³, 75 ppm

Long-term value: 82 mg/m³, 20 ppm

BEI

CAS: 111-76-2 2-Butoxyethanol

PEL (USA) Long-term value: 240 mg/m³, 50 ppm

Skin

REL (USA) Long-term value: 24 mg/m³, 5 ppm

Skin

TLV (USA) Long-term value: 97 mg/m³, 20 ppm

BEI

CAS: 123-42-2 4-Hydroxy-4-methylpentan-2-one

PEL (USA) Long-term value: 240 mg/m³, 50 ppm

REL (USA) Long-term value: 240 mg/m³, 50 ppm

TLV (USA) Long-term value: 238 mg/m³, 50 ppm

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR**CAS: 107-98-2 1-Methoxy-2-propanol**

REL (USA) Short-term value: 540 mg/m³, 150 ppm
Long-term value: 360 mg/m³, 100 ppm

TLV (USA) Short-term value: 369 mg/m³, 100 ppm
Long-term value: 184 mg/m³, 50 ppm

CAS: 71-23-8 1-Propanol

PEL (USA) Long-term value: 500 mg/m³, 200 ppm

REL (USA) Short-term value: 625 mg/m³, 250 ppm
Long-term value: 500 mg/m³, 200 ppm
Skin

TLV (USA) Long-term value: 246 mg/m³, 100 ppm

CAS: 1330-20-7 Xylene

OEL (Japan) Long-term value: 217 mg/m³, 50 ppm

PEL (USA) Long-term value: 435 mg/m³, 100 ppm

REL (USA) Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV (USA) Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

Ingredients with biological limit values:**CAS: 108-10-1 Methyl isobutyl ketone**

BEI (USA) 1 mg/L

Medium: urine

Time: end of shift

Parameter: MIBK

CAS: 111-76-2 2-Butoxyethanol

BEI (USA) 200 mg/g creatinine

Medium: urine

Time: end of shift

Parameter: Butoxyacetic acid with hydrolysis

CAS: 1330-20-7 Xylene

BEI (USA) 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

Additional information: The lists valid during the making were used as basis.

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.

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR

Hand protection

Protective gloves

Material of gloves: Rubber**Penetration time of glove material**

The exact break through 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****General Information**

| | |
|---|-----------------------------------|
| Physical state | Fluid |
| Colour: | Whitish |
| Odour: | Characteristic |
| Melting point/freezing point: | Undetermined. |
| Boiling point or initial boiling point and boiling range | Undetermined. |
| Flammability | Flammable |
| Lower and upper explosion limit | |
| Lower explosive limit: | 1.7 Vol % |
| Upper explosive limit: | 9.0 Vol % |
| Flash point: | -2.5 °C (TCC) |
| Decomposition temperature: | No further information available. |
| pH | Not determined. |
| Viscosity: | |
| Kinematic viscosity | No further information available. |
| Solubility | |
| water: | No further information available. |
| Partition coefficient n-octanol/water (log value) | No further information available. |
| Vapour pressure: | No further information available. |
| Density and/or relative density | |
| Density: | Not determined. |
| Vapour density | No further information available. |
| Particle characteristics | Not applicable. |

9.2 Other information:

| | |
|-----------------------------------|---|
| Form: | Liquid |
| Auto-ignition temperature: | Product is not self-igniting. |
| Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |

Information with regard to physical hazard classes

| | |
|--|----------------|
| Explosives | Not applicable |
| Flammable gases | Not applicable |
| Aerosols | Not applicable |
| Oxidising gases | Not applicable |
| Gases under pressure | Not applicable |
| Flammable liquids | |
| Highly flammable liquid and vapour. | |
| Flammable solids | Not applicable |
| Self-reactive substances and mixtures | Not applicable |
| Pyrophoric liquids | Not applicable |

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR

| | |
|--|----------------|
| Pyrophoric solids | Not applicable |
| Self-heating substances and mixtures | Not applicable |
| Substances and mixtures, which emit flammable gases in contact with water | Not applicable |
| Oxidising liquids | Not applicable |
| Oxidising solids | Not applicable |
| Organic peroxides | Not applicable |
| Corrosive to metals | Not applicable |
| Desensitised explosives | Not applicable |

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: Oxidizing agents

10.6 Hazardous decomposition products: Danger of toxic fluorine based pyrolysis products.

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:

CAS: 108-10-1 Methyl isobutyl ketone

Oral LD50 2080 mg/kg (Rat)

Dermal LD50 16000 mg/kg (Rabbit)

Inhalative LC50/4 h 8.3-16.6 ppm (Rat)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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

May cause respiratory irritation.

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.

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.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR

12.7 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.**Uncleaned packaging****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN number or ID number****ADR, IMDG, IATA** UNI263**14.2 UN proper shipping name:****ADR:** 1263 PAINT**IMDG, IATA** PAINT**14.3 Transport hazard class(es):****ADR, IMDG, IATA****Class:** 3 Flammable liquids.**Label:** 3**14.4 Packing group:****ADR, IMDG, IATA** II**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user:** Warning: Flammable liquids.**Hazard identification number (Kemler code):** 33**EMS Number:** F-E,S-E**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.

ADR**Limited quantities (LQ):** 5L**Transport category:** 2**Tunnel restriction code:** D/E**UN "Model Regulation":** UNI263, PAINT, 3, II*** 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

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal word Danger**Hazard-determining components of labelling:**

Binder

Printing date 15.03.2023

Version number 1

Revision: 15.03.2023

Trade name: POLYFLON PTFE TC-7400CR**Hazard statements***H225 Highly flammable liquid and vapour.**H315 Causes skin irritation.**H319 Causes serious eye irritation.**H317 May cause an allergic skin reaction.**H335 May cause respiratory irritation.**H412 Harmful to aquatic life with long lasting effects.***Precautionary statements***P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P241 Use explosion-proof [electrical/ventilating/lighting] equipment.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***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 relatif au transport international 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**Flam. Liq. 2: Flammable liquids – Category 2**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3**** Data compared to the previous version altered.**