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Version number 1

Revision: 31.08.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: POLYFLON PTFE TC-7405GN****Article number: 7405GN****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

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Japan: +81-6-6349-7521

China: +86-512-5-232-0949, +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

Methyl isobutyl ketone

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.

Trade name: POLYFLON PTFE TC-7405GN

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

Information on ingredients:

CAS: 9002-84-0	Polytetrafluoroethylene	<5%
	Binder	10-20%
	Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	Cobalt Green	<5%
CAS: 108-10-1	Methyl isobutyl ketone	35-45%
	Flam. Liq. 2, H225 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 123-42-2	4-Hydroxy-4-methylpentan-2-one	<5%
	Flam. Liq. 3, H226 Eye Irrit. 2, H319	
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	
CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom.	<5%
	Asp. Tox. 1, H304	
CAS: 111-76-2	2-Butoxyethanol	<5%
	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
	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	
CAS: 112-34-5	2-(2-Butoxyethoxy)ethanol	5-15%
	Eye Irrit. 2, H319	
	Others	10-20%

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.

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.

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: POLYFLON PTFE TC-7405GN

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:

Foam

Fire-extinguishing powder

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.

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.

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: POLYFLON PTFE TC-7405GN

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:

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

Additional information about design of technical facilities: No further data; see item 7.

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

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

Cobalt Green

OEL (Japan) Long-term value: 0.05 mg/m³
as Co

PEL (USA) Long-term value: 0.1* mg/m³
as Co; *for metal dust and fume

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: POLYFLON PTFE TC-7405GN

REL (USA) Long-term value: 0.05 mg/m³
as Co; metal dust & fume

TLV (USA) Long-term value: 0.02 mg/m³
as Co, BEI

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**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

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: POLYFLON PTFE TC-7405GN

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 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: Green
Odour: Characteristic

pH-value: No further information available.**Melting point/freezing point:** No further information available.**Initial boiling point and boiling range:** No further information available.**Flash point:** -8 °C (TCC)**Flammability (solid, gas):** Not applicable.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Explosion limits:****Lower explosive limit:** 1.7 Vol %**Upper explosive limit:** 9.0 Vol %**Vapour pressure:** No further information available.**Density at 25 °C:** 1 g/cm³**Solubility in / Miscibility with water:**

No further information available.

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.**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 toxicological effects****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 (rab)

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: POLYFLON PTFE TC-7405GN

*Inhalative LC50/4 h 8.3-16.6 ppm (Rat)***Primary irritant effect****Skin corrosion/irritation***Causes skin irritation.***Serious eye damage/irritation***Causes serious eye irritation.***Respiratory or skin sensitisation***May cause an allergic skin reaction.***Additional toxicological information:****CMR effects****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.***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.***Remark:** *Harmful to fish***General notes:** *Harmful to aquatic organisms***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.***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:****ADR, IMDG, IATA**

UN1263

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

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: POLYFLON PTFE TC-7405GN

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 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.

ADR**Limited quantities (LQ):** 5L**Transport category:** 2**Tunnel restriction code:** D/E**UN "Model Regulation":** UN1263, 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

Methyl isobutyl ketone

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.

Printing date 01.12.2020

Version number 1

Revision: 31.08.2020

Trade name: **POLYFLON PTFE TC-7405GN**

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

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.**