

Revision: 15.03.2023

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

#### 1.1 Product identifier

 Trade name: POLYFLON PTFE TC-7113LB

 Article number: 7113LB

 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.



Repr. 1B

H360D May damage the unborn child.

Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2H319Causes serious eye irritation.STOT SE 3H335May cause respiratory irritation.

## 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:

N-Methyl-2-pyrrolidone

Reaction mass of ethylbenzene and xylene

#### **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.



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#### Additional information:

EUH208 Contains Epoxy Resin (Number average molecular weight  $\leq$  700). May produce an allergic reaction. EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Restricted to professional users.

SECTION 3: Composition/information on ingredients				
Information on ingredients:				
CAS: 9002-84-0	Polytetrafluoroethylene	<5%		
	Binder	5-15%		
CAS: 13463-67-	7 Titanium dioxide Carc. 2, H351	<5%		
CAS: 872-50-4	<i>N-Methyl-2-pyrrolidone</i> <i>Repr. 1B, H360D</i> <i>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</i> <i>Specific concentration limit: STOT SE 3; H335: C</i> $\geq$ 10 %	45-55%		
CAS: 108-10-1	Methyl isobutyl ketone 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	15-25%		
	Reaction mass of ethylbenzene and xylene 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 SI 3, H335 ATE: LD50 dermal: 1100 mg/kg LC50/4h inhalative: 29 ppm	1-10% E		
SVHC:	Others	5-15%		
	N-Methyl-2-pyrrolidone mation: 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:
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: No further relevant information available.
SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing agents: Water haze

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Water spray Alcohol resistant foam Fire-extinguishing powder C02 Dry sand 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. 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.



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Provide solvent resistant, sealed floor.
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

Ingredients with limit values that require monitoring at the workplace:

#### CAS: 872-50-4 N-Methyl-2-pyrrolidone

OEL (Japan) Long-term value: 4 mg/m<sup>3</sup>, 1 ppm WEEL (USA) Long-term value: 10 ppm Skin

#### CAS: 108-10-1 Methyl isobutyl ketone

OEL (Japan) Long-term value: 200 mg/m<sup>3</sup>, 50 ppm

- PEL (USA) Long-term value: 410 mg/m<sup>3</sup>, 100 ppm
- REL (USA) Short-term value: 300 mg/m<sup>3</sup>, 75 ppm Long-term value: 205 mg/m<sup>3</sup>, 50 ppm
- TLV (USA) Short-term value: 307 mg/m<sup>3</sup>, 75 ppm Long-term value: 82 mg/m<sup>3</sup>, 20 ppm BEI

## CAS: 1330-20-7 Xylene

OEL (Japan) Long-term value: 217 mg/m<sup>3</sup>, 50 ppm

- PEL (USA) Long-term value: 435 mg/m<sup>3</sup>, 100 ppm
- REL (USA) Short-term value: 655 mg/m<sup>3</sup>, 150 ppm Long-term value: 435 mg/m<sup>3</sup>, 100 ppm
- TLV (USA) Short-term value: 651 mg/m<sup>3</sup>, 150 ppm Long-term value: 434 mg/m<sup>3</sup>, 100 ppm BEI

#### Ingredients with biological limit values:

#### CAS: 872-50-4 N-Methyl-2-pyrrolidone

BEI (USA) 100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

## CAS: 108-10-1 Methyl isobutyl ketone

OEL-B (Japan) 1.7 mg/l 試料: 尿 試料採取時期: 作業終了時 物質: Methylisobutylketone

BEI (USA) I mg/L Medium: urine Time: end of shift Parameter: MIBK



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## CAS: 1330-20-7 Xylene

OEL-B (Japan) 800 mg/l 試料:尿 試料採取時期:週末の作業終了時 物 質: total (o-, m-, p-)methylhippuric acid

BEI (USA) 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

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:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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 proper	rties
General Information	
Physical state	Fluid
Colour:	Light brown
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:	1.3 Vol %
Upper explosive limit:	9.5 Vol %
Flash point:	7.8 °C (TCC)
Decomposition temperature:	No further information available.
pH	Not determined.
Viscosity:	
Kinematic viscosity	No further information available.



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Solubility	
water:	
Partition coefficient n-octanol/water (log	value)
Vapour pressure:	
Density and/or relative density	
Density at 25 °C:	
Vapour density	
Particle characteristics	

9.2 Other information: Form: Auto-ignition temperature: Explosive properties: No further information available. No further information available. No further information available.

1.02 g/cm<sup>3</sup> No further information available. Not applicable.

Liquid Product is not self-igniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

ExplosivesNot applicableFlammable gasesNot applicableAerosolsNot applicableOxidising gasesNot applicableGases under pressureNot applicableFlammable liquidsNot applicableFlammable liquid and vapour.Not applicableFlammable solidsNot applicableSelf-reactive substances and mixturesNot applicablePyrophoric liquidsNot applicablePyrophoric solidsNot applicableSelf-heating substances and mixturesNot applicableSubstances and mixtures, which emit flammable gasesNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicableDesensitised explosivesNot applicable	Information with regard to physical hazard classes				
AerosolsNot applicableOxidising gasesNot applicableGases under pressureNot applicableFlammable liquidsNot applicableFlammable liquid and vapour.Not applicableFlammable solidsNot applicableSelf-reactive substances and mixturesNot applicablePyrophoric liquidsNot applicablePyrophoric solidsNot applicableSelf-heating substances and mixturesNot applicableSubstances and mixturesNot applicableSubstances and mixtures, which emit flammable gasesNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Explosives	Not applicable			
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Highly flammable liquid and vapour.Flammable solidsNot applicableSelf-reactive substances and mixturesNot applicablePyrophoric liquidsNot applicablePyrophoric solidsNot applicableSelf-heating substances and mixturesNot applicableSubstances and mixtures, which emit flammable gasesNot applicableIn contact with waterNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Gases under pressure	Not applicable			
Flammable solidsNot applicableSelf-reactive substances and mixturesNot applicablePyrophoric liquidsNot applicablePyrophoric solidsNot applicableSelf-heating substances and mixturesNot applicableSubstances and mixtures, which emit flammable gasesNot applicablein contact with waterNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Flammable liquids				
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Pyrophoric solidsNot applicableSelf-heating substances and mixturesNot applicableSubstances and mixtures, which emit flammable gasesNot applicablein contact with waterNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Self-reactive substances and mixtures	Not applicable			
Self-heating substances and mixturesNot applicableSubstances and mixtures, which emit flammable gasesNot applicablein contact with waterNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Pyrophoric liquids	Not applicable			
Substances and mixtures, which emit flammable gasesin contact with waterNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Pyrophoric solids	Not applicable			
in contact with waterNot applicableOxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Self-heating substances and mixtures	Not applicable			
Oxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	Substances and mixtures, which emit flammable gases				
Oxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicable	in contact with water	Not applicable			
Organic peroxidesNot applicableCorrosive to metalsNot applicable	Oxidising liquids	Not applicable			
Corrosive to metals Not applicable	Oxidising solids	Not applicable			
11	Organic peroxides	Not applicable			
Desensitised explosives 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:

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:

## CAS: 872-50-4 N-Methyl-2-pyrrolidone

Oral LD50 3914 mg/kg (Rat) Dermal LD50 8000 mg/kg (Rabbit)



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## 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)

## CAS: 1330-20-7 Xylene

Oral LD50 4300 mg/kg (Rat)

Dermal LD50 2000 mg/kg (Rabbit) Skin corrosion/irritation

Causes skin irritation.

*Serious eye damage/irritation Causes serious eye irritation.* 

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 May damage the unborn child. 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. 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.
12.6 Endocrine discussion available.

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



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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 14.2 UN proper shipping name: ADR: IMDG, IATA 14.3 Transport hazard class(es):

1263 PAINT PAINT

UN1263

ADR, IMDG, IATA



Class:	3 Flammable liquids.
Label:	3
14.4 Packing group:	
ADR, IMDĞ, 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 IM	10
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":	UN1263, PAINT, 3, II
SECTION 15. Desculators information	

## **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



**Signal word** Danger

*Hazard-determining components of labelling: N-Methyl-2-pyrrolidone* 



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Reaction mass of ethylbenzene and xylene			
Hazard statements			
H225 Highly flammable liquid and vapour.			
H315 Causes skin irritation.			
H319 Causes serious eve irritation.			
H360D May damage the unborn child.			
H335 May cause respiratory irritation.			
Precautionary statements			
<i>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</i>			
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.			
<i>P501</i> Dispose of contents/container in accordance with local/regional/national/international			
regulations.			
DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic			
equipment – Annex II			

Other regulations, limitations and prohibitive regulations: Substances of very high concern (SVHC) according to REACH, Article 57:

CAS: 872-50-4 N-Methyl-2-pyrrolidone

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 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 SVHC: Substances of Very High Concern 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 Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 \* Data compared to the previous version altered.