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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-7400B**Article number:** 7400B**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:***+81-6-6349-7521, +1-256-306-5000, +86-512-5-232-0949, +82-2-568-1722, +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***Eye Irrit. 2 H319 Causes serious eye 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:** Warning**Precautionary statements:***P280 Wear protective gloves/protective clothing/eye protection/face protection.**P264 Wash thoroughly after handling.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P337+P313 If eye irritation persists: Get medical advice/attention.***SECTION 3: Composition/information on ingredients****Information on ingredients:**

112-34-5 2-(2-butoxyethoxy)ethanol	55-65%
Xi R36	

*Eye Irrit. 2, H319***Description:***Mixture: consisting of the following components.**Modified aliphatic polyamine 35-45%**Additional information: For the wording of the listed risk 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.**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.*

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**Trade name: POLYFLON PTFE TC-7400B****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:**

Fire-extinguishing powder  
 Foam  
 CO<sub>2</sub>

**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.

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:**

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 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:**

Prevent formation of aerosols.

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.

Keep receptacle 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 receptacle in a well ventilated area.

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**Trade name: POLYFLON PTFE TC-7400B***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:****112-34-5 2-(2-butoxyethoxy)ethanol**TLV (USA) Long-term value: 67,5\* mg/m<sup>3</sup>, 10\* ppm

\*Inhalable fraction and vapor

**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 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:**

Colorless or light yellow

**Odour:**

Amine-like

**pH-value:**

No further information available.

**Melting point/Melting range:**

No further information available.

**Boiling point/Boiling range:**

No further information available.

**Flash point:**

117 °C (COC)

Not applicable.

**Danger of explosion:**

Product does not present an explosion hazard.

**Lower explosive limit:**

No further information available.

**Upper explosive limit:**

No further information available.

**Vapour pressure:**

No further information available.

**Density at 25 °C:**1 g/cm<sup>3</sup>

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**Trade name: POLYFLON PTFE TC-7400B****Evaporation rate** Not determined.**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****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:** Oxigen**10.6 Hazardous decomposition products:** Danger of toxic fluorine based pyrolysis products.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects****Acute toxicity****LD/LC50 values relevant for classification:****112-34-5 2-(2-butoxyethoxy)ethanol**

Oral LD50 5660 mg/kg (Rat)

Dermal LD50 4000 mg/kg (Rabbit)

**Primary irritant effect****on the eye:** Irritating effect.**after inhalation:** No further information available.**Sensitisation:** No sensitising effects known.**Additional toxicological information:***The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:***Irritant****CMR effects****Germ cell mutagenicity:** No further information available.**Carcinogenicity:** No further information available.**Reproductive toxicity:** No further information available.**Aspiration hazard:** No further information available.**Specific target organ toxicity - single exposure:** No further information available.**Specific target organ toxicity - repeated exposure:** No further information available.

## 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 relevant information available.**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.

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

## 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":**

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## 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**

GHS07

**Signal word** Warning**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

**National regulations** No further information available.**Other regulations, limitations and prohibitive regulations:** No further information available.

## 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/>

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### **Abbreviations and acronyms:**

*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*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*