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1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** DAIKIN PPA DA-810X
- **Article number:** DA810X
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Rubber compounding
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
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Phone: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281
- **Further information obtainable from:** <http://www.daikin.com/>
- **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

2 Hazard identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Signal word** Not applicable

3 Composition/information on ingredients

- **Chemical characterization: Substances**

9011-17-0 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-fluoroethene	25-35%
14807-96-6 Talc (Mg3H2(SiO3)4) substance with a Community workplace exposure limit	<5%
7631-86-9 silicon dioxide, chemically prepared	<5%
Others	<5%
25322-68-3 Polyethylene glycol substance with a Community workplace exposure limit	60-70%
- **Chemical characterization: Mixtures**
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **General information:** Seek immediate medical advice.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product off the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.

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- **Advice for firefighters**
- **Protective equipment:**
Inhalation respiratory device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Stay on the windward side.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool and dry location.
- **Information about storage in one common storage facility:** No further information available.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
Store under lock and key.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

25322-68-3 Polyethylene glycol

WEEL (USA) Long-term value: 10 mg/m³
(H); MW>200

14807-96-6 Talc (Mg₃H₂(SiO₃)₄)

PEL (USA) Long-term value: 20 mppcf ppm
(containing <1% Quartz)

REL (USA) Long-term value: 2* mg/m³
*respirable dust

TLV (USA) Long-term value: 2* mg/m³
*as respirable fraction; E

- **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 the product is heated above 200 °C and toxic gases is formed.

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· Protection of hands:



Protective gloves

· **Eye protection:** Safety glasses· **Body protection:** Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Powder

Colour: White

· **Odour:** Odourless· **Odour threshold:** Not determined.· **pH-value:** Not applicable.

· Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.· **Flammability (solid, gaseous):** Not determined.· **Decomposition temperature:** >230 °C (1%TG)· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Lower:** Not determined.· **Upper:** Not determined.· **Vapour pressure:** Not applicable.· **Density at 25 °C:** 1,85-1,96 g/cm³

Not determined.

· **Relative density** Not determined.· **Vapour density** Not applicable.· **Evaporation rate** Not applicable.· **Solubility in / Miscibility with water:**

Insoluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

· **Other information** No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat.

· **Possibility of hazardous reactions** No dangerous reactions known under normal conditions of use.· **Conditions to avoid** Keep away from heat, sparks, flame, high temperature.

· Incompatible materials:

Metal powder (Al, Mg) and fluorine oxidizer. There is a danger of chemical reactions that could cause fire or explosion when the product is heated with them.

· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:** no data

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:** no data

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Landfill disposal is recommended.

In case of incineration, the product has to be incinerated over 800C.

The exhaust gas such as HF has to be treated in a suitable way.

Disposal must be made according to official regulations.

- **Uncleaned packaging:**

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

14 Transport information

- **UN-Number**

- **ADR, ADN, IMDG, IATA**

Not applicable

- **UN proper shipping name**

- **ADR, ADN, IMDG, IATA**

Not applicable

- **Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- **Class**

Not applicable

- **Packing group**

- **ADR, IMDG, IATA**

Not applicable

- **Environmental hazards:**

- **Marine pollutant:**

No

- **Special precautions for user**

Not applicable.

- **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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15 Regulatory information

16 Other information

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 Organization

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 Harmonized System of Classification and Labelling of Chemicals