

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

- **Product identifier**
- **Trade name:** DAIKIN PPA DA-310ST
- **Article number:** DA310ST
- **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:**
DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION:
Umeda Center Bldg., 4-12, Nakazaki-Nishi2-chome, Kita-Ku, Osaka, JAPAN
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	85-95%
14807-96-6 Talc (Mg3H2(SiO3)4)	1-10%
7631-86-9 silicon dioxide, chemically prepared	<5%
471-34-1 calcium carbonate	<5%

· 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:**
After contact with the molten product, cool rapidly with cold water.
Immediately wash with water and soap and rinse thoroughly.
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:**
Vapors and fumes liberated during hot processing with this material may cause flu-like symptoms (chills, fever and, sometimes, cough) that may not occur until several hours after exposure and typically pass within about 36 to 48 hours.
- **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.

Safety data sheet

Printing date 19.02.2014

Revision: 19.02.2014

Trade name: DAIKIN PPA DA-310ST

- **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.
- **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** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 - Extractors are required on all machines used for thermal processing or powder handling processes.
- **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.
- **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:** Not required.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Keep away from tobacco products.
 - Do not eat or drink while working.
- **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.
- **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:	Solid material
Colour:	White
Odour:	Odourless

Safety data sheet

Printing date 19.02.2014

Revision: 19.02.2014

Trade name: DAIKIN PPA DA-310ST

- **Change in condition**
 - Melting point/Melting range:** Not determined.
 - Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Decomposition temperature:** >230 °C (1%TG)
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 25 °C:** 1,85-1,96 g/cm³
- **Solubility in / Miscibility with water:** Insoluble.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 - To avoid thermal decomposition do not overheat.
 - No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Keep away from heat, sparks, flame, high temperature.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Danger of toxic fluorine based pyrolysis products.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** no data
- **Additional toxicological information:**
 - 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.

Safety data sheet

Printing date 19.02.2014

Revision: 19.02.2014

Trade name: DAIKIN PPA DA-310ST**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.*
- **UN "Model Regulation":** *-*

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