

Printing date 22.01.2009

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

- **Product details**
- **Trade name:** DAI-EL G-551,557,558,575,603,621,671
- **Article number:** 557
- **Application of the substance / the preparation** Rubber compounding
- **Manufacturer/Supplier:**
DAIKIN INDUSTRIES, LTD.CHEMICAL DIVISION:
Umeda Center Bldg., 4-12, Nakazaki-Nishi2-chome, Kita-Ku, Osaka, JAPAN
Phone: (+81) 6-6373-4349 Fax: (+81) 6-6373-4389
- **Further information obtainable from:** <http://www.daikin.com/>
- **Information in case of emergency:** +81-6-6349-7521, +1-256-306-5000, +86-512-5232-0973, +49-211-179 225-0

2 Hazards identification

- **GHS label elements** Void

3 Composition/information on ingredients

- **Chemical characterization:**
25190-89-0 1,1-Difluoroethene, tetrafluoroethene, 1,1,2,3,3,3-hexafluoro-1-propene polymer
1478-61-1 Bisphenol AF
Danger: Corrosion 3.3/1
49663-94-7 DUB-B
Warning: Exclamation mark 3.3/2A

4 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.
- **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.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** none
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

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- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Extractors are required on all machines used for thermal processing or splinter removal processes.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from contamination.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **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.
- **Respiratory protection:**
For conditions where exist a potential for significant exposure to fumes and/or toxic vapours use a full-face-mask with the acid and organic vapor cartridges.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Synthetic rubber gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**
- **Form:** Solid material
- **Colour:** Whitish
- **Odour:** Odourless
- **Change in condition**
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Decomposition temperature:** >230°C (1%TG)
- **Self-igniting:** Product is not selfigniting.

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** 1,8-2,1 g/cm³ (RT)
- **Solubility in / Miscibility with water:** Insoluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
Even at the temperatures reached during the normal hot processing of fluoropolymers fume will be generated, that will present a potential health hazard.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Danger of toxic fluorine based pyrolysis products.

11 Toxicological information

- **Acute toxicity:** no data

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is insoluble in water and the biodegradation and ecotoxicity is expected to be low.

13 Disposal considerations

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

14 Transport information

- **UN "Model Regulation":** -

15 Regulatory information

- **Safety phrases:**
15 Keep away from heat.
21 When using do not smoke.

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 MSDS:** Toxicology and Product Regulatory
- **Contact:** <http://www.daikin.com/>
- **Abbreviations and acronyms:** GHS: Globally Harmonized System of Classification and Labelling of Chemicals