

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

**Trade name:** DAI-EL Thermoplastics T-530,550

**Article number:** 530

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

**Application of the substance / the mixture:** Rubber

**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 according to Regulation (EC) No 1272/2008:**

The substance is not classified according to the CLP regulation.

**Labelling according to Regulation (EC) No 1272/2008:** Not applicable

**Signal word:** Not applicable

**SECTION 3: Composition/information on ingredients****3.1 Chemical characterization**

1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene, ethene and tetrafluoroethene

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**General information:** Seek immediate medical advice.

**After inhalation:**

In case of inhaling decomposed gases: supply fresh air and consult a 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 a doctor.

**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:** Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** none

**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.

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.

Keep out unauthorized persons.

Wear appropriate protective devices (See Section 8 Exposure Controls/ Personal Protection). Avoid contact with eyes and skin.

Do not inhale the product.

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**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

**6.4 Reference to other sections:** No dangerous substances are released.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Extractors are required on all machines used for thermal processing or powder handling processes.

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:**

See section 10 for information on incompatible materials.

**Further information about storage conditions:**

Protect from contamination.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

### 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

**Ingredients with limit values that require monitoring at the workplace:** Not required.

### 8.2 Exposure controls

#### Personal protective equipment

**General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Keep away from tobacco products.

Do not eat or drink while working.

**Respiratory protection:**

For conditions with 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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance

**Form:** Solid material

**Colour:** Whitish

**Odour:** Odourless

**pH-value:**

No further information available.

**Melting point/Melting range:**

No further information available.

**Boiling point/Boiling range:**

No further information available.

**Flash point:**

Not applicable.

**Flammability (solid, gaseous):**

Product is not flammable.

**Decomposition temperature:**

>330 °C (1%TG)

**Danger of explosion:**

Product does not present an explosion hazard.

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**Lower explosive limit:** No further information available.

**Upper explosive limit:** No further information available.

**Vapour pressure:** No further information available.

**Density:** 1,8-2,1 g/cm<sup>3</sup> (RT)

**Solubility in / Miscibility with water:** Insoluble.

**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.

Even at the temperatures reached during the normal hot processing of fluoropolymers, fume that presents a potential health hazard may be generated.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** Keep away from heat, sparks, flame, high temperature.

### 10.5 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.

**10.6 Hazardous decomposition products:** Danger of toxic fluorine based pyrolysis products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** no data

**LD/LC50 values relevant for classification:** No further information available.

#### Primary irritant effect

**on the skin:** No irritant effect known.

**on the eye:** No irritant effect known.

**after inhalation:** No further information available.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

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

#### 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.

**Other information:** The product is insoluble in water and the biodegradation and ecotoxicity is expected to be low.

**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.

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## 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:

**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

**Labelling according to Regulation (EC) No 1272/2008** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

## 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 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

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent