

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

- **Product identifier**
- **Trade name:** DAI-EL G-7211
- **Article number:** G7211
- **Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
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## 2 Hazard identification

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



Eye Irrit. 2 H319 Causes serious eye irritation.

- **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.

## 3 Composition/information on ingredients

- **Composition**

9011-17-0 Fluoroelastomer	>95%
1478-61-1 Bisphenol AF Xi R41 Eye Dam. 1, H318	<5%
Vulcanization accelerator	<5%

- **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 medical treatment.
- **After inhalation:** In case of inhaling decomposed gases: supply fresh air and 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 chronic:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

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## **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.
- **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:**  
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 swallow/ inhale the product.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **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.  
Extractors are required on all machines used for thermal processing or powder handling processes.  
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.
- **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:**  
See section 10 for information on incompatible materials.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacle.  
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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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.

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· **Respiratory protection:**

Dust respirator, simplified dust respirator

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 are 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: Light yellow

· **Odour:** Odourless

· **pH-value:** No further information available.

· **Change in condition**

**Melting point/Melting range:** No further information available.

**Boiling point/Boiling range:** No further information available.

· **Flash point:** Not applicable.

· **Decomposition temperature:** >230 °C (1%TG)

· **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:** Not applicable.

· **Density at 25 °C:** 1,8-2,1 g/cm³

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

· **Partition coefficient (n-octanol/water):** No further information available.

· **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.

· **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:**

As for decomposition products, particulate matters and extremely toxic/ corrosive fumes may be generated (HF, carbonyl fluoride, monomer, perfluoroisobutylene).

Decomposition products differ depending on the temperature and conditions.

## 11 Toxicological information

· **Information on toxicological effects**

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

· **Primary irritant effect**

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

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Other information (about experimental toxicology):** No further information available.

· **Subacute to chronic toxicity:** No further information available.

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**· 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*

*General effects:*

*Fumes generated during burning may cause "polymer fume fever" (flu-like symptoms such as fever, chill, cough).*

*This may last for a whole day and night.*

*Fumes are not absorbed in skin. No sensitizing effect known.*

*Effects of hydrogen fluoride:*

*Low concentration of hydrogen fluoride may cause feeling of dyspnea, cough, irritation in eyes, nose, throat, fever, chill for 1-2 days.*

*After that, dyspnea, cyanosis and pulmonary edema may be seen.*

*High concentration of hydrogen fluoride damages liver and kidney.*

*Effects of carbonyl fluoride:*

*Skin: Irritation or eruption*

*Eye: Ulcer in cornea, conjunctiva*

*Respiratory system : Irritation*

*Lung: Temporary symptoms such as cough, pain, dyspnea*

*Persons who have experienced lung diseases are vulnerable to toxicity caused by excessive exposure to pyrolysis products*

## 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.

**· Results of PBT and vPvB assessment**

**· PBT:** No further relevant information available.

**· vPvB:** No further relevant information available.

**· Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

**· Waste treatment methods**

**· Recommendation:**

*Landfill disposal is recommended.*

*In case of incineration, the temperature must be higher than 800 °C.*

*Treat exhaust gas such as HF 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.

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- **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":** -

## 15 Regulatory information

## 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