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# Safety data sheet

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DAIKIN

Revision: 09.08.2017

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

#### 1.1 Product identifier

#### *Trade name:* DAI-EL G-701BP,G-701HBP,G-701MBP,G-710BP,G-751BP,G-755CBP, G-790BP Article number: G700BP STD

**1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.

# 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: Japan:* +81-6-6349-7521 *China:* +86-512-5-232-0949, +86-21-34151689 *South Korea:* +82-2-568-1722 *Americas:* +1-256-306-5000 *Europe:* +49-211-179 225-0

### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

*Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.* 

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008: Not applicable Signal word: Not applicable

### **SECTION 3: Composition/information on ingredients**

#### Information on ingredients:

CAS: 9011-17-0 Vinylidene fluoride-hexafluoropropylene copolymer

### **SECTION 4: First aid measures**

4.1 Description of first aid measures General information: Seek medical treatment. After inhalation: In case of inhaling decomposed gases: supply fresh air and consult a doctor in case of complaints. After skin contact: Consult a doctor in case of complaints. 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. Immediately rinse with warm water and soap. Consult a doctor in case of complaints. After eye contact: *Rinse opened eye for several minutes under running water.* Consult an ophthalmologist in case of complaints. 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 for surrounding conditions. For safety reasons unsuitable extinguishing agents: None





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No further information available. **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. Wear self-contained breathing apparatus and 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 swallow the product.
6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water. Do not allow product to reach sewage system or any water course.
6.3 Methods and material for containment and cleaning up: Pick up mechanically.
6.4 Reference to other sections: See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### 7.1 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. 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. 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 containers 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** No further information available. **Ingredients with limit values that require monitoring at the workplace:** Not required.

8.2 Exposure controls Personal protective equipment General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not eat or drink while working. Keep away from tobacco products. Respiratory protection: Suitable respiratory protective device recommended. Dust respirator, simplified dust respirator



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#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



# Protective gloves

### Material of gloves:

Synthetic rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Rubber Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. *Eye protection:* 



Body protection: Protective work clothing

### SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Solid material Whitish Odourless Not determined.
No further information available. No further information available. No further information available.
Not applicable.
Product is not flammable.
No further information available.
Not determined. Product does not present an explosion hazard.
No further information available. No further information available.
No further information available.
No further information available. Not determined. Not applicable. Not applicable.
Insoluble.
No further information available. Not applicable. Not applicable. No further relevant information available.



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### SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available. 10.2 Chemical stability Thermal decomposition / conditions to be avoided: Even at the temperatures reached during the normal hot processing of fluoropolymers, fume that presents a potential health hazard may be generated. To avoid thermal decomposition do not overheat. 10.3 Possibility of hazardous reactions: Could react with powdered metals and metal oxides. No dangerous reactions known under normal conditions of use. 10.4 Conditions to avoid: Keep away from heat, sparks, flame, high temperature. 10.5 Incompatible materials: Metal powder (e.g. 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: As for decomposition products, particulate matters and extremely toxic/corrosive fumes may be generated (HF, carbonyl fluoride, monomers, perfluoroisobutylene).

Decomposition products differ depending on the temperature and conditions.

Organic iodine compounds such as methyl iodide may be generated when iodine which becomes a crosslinking point reacts with decomposed products of organic peroxide.

### **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Acute toxicity No further information available. LD/LC50 values relevant for classification: No further information available. **Primary irritant effect** Skin corrosion/irritation No further information available. No further information available. Serious eye damage/irritation No further information available. No further information available. after inhalation: No further information available. **Respiratory or skin sensitisation** No further information available. Additional toxicological information: General effects: Fumes generated during burning may cause "polymer fume fever" (flu-like symptons 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 symptons such as cough, pain, dyspnea Persons who have experienced lung diseases are vulnerable to toxicity caused by excessive exposure to pyrolysis products CMR effects Germ cell mutagenicity No further information available. Carcinogenicity No further information available.



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Reproductive toxicity No further information available. STOT-single exposure No further information available. STOT-repeated exposure No further information available. Aspiration hazard No further information available. Chronic study No further information available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability: The product is thought to be non-biodegradable.
12.3 Bioaccumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
Ecotoxical effects: no data
Additional ecological information:
General notes: Due to the consistence and the low watersolubility of the product a bioavailability is not probable.
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.

### **SECTION 13: Disposal considerations**

## 13.1 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

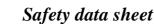
Recommendation: Disposal must be made according to official regulations.

### 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:	Not dangerous according to the above specifications.
	Avoid direct sunlight. Make sure of no damage, corrosion, leaks on
	the receptacles.
	Take necessary measures for preventing cargo shift.
UN "Model Regulation":	Not applicable

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. Labelling according to Regulation (EC) No 1272/2008 Not applicable





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Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations No further information available.

*Other regulations, limitations and prohibitive regulations:* 1 15.2 *Chemical safety assessment:* A *Chemical Safety Assessment has not been carried out.* 

### **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:

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 Organisation

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 Harmonised System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

*PBT: Persistent, Bioaccumulative and Toxic* 

*vPvB: very Persistent and very Bioaccumulative* 

\* Data compared to the previous version altered.