



# Material Safety Data Sheet

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## Section 1: Identification of the substance and manufacturer

Trade name **DAI-EL G-7100EBP, G-7200BP, G-7200EBP, G-7210BP, G-7300EBP, G-7300SBP, G-7320BP, G-7400BP, G-7800BP**

Synonym 1-Propene, 1,1,2,3,3,3-hexafluoro- polymer with 1,1-difluoroethene

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## Section 2: Hazard identification

### EMERGENCY OVERVIEW:

Skin Burns from contact with molten material. Signs/symptoms may include burning pain, red and swollen skin, and blisters.

Harmful if thermal decomposition products are inhaled. Normally inhalation problems should not be expected.

### Potential Health Effects:

Inhalation 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.

Eye Normally low irritation to the eyes is expected.

Skin Low-irritating to skin

Ingestion Small amounts (tablespoon full) swallowed during normal handling operation are not likely to cause injury. Swallowing larger than that may cause injury.

Chronic -

## Section 3: Composition / information on ingredients

| Component  | mass % | CAS No.   |
|--|--------|-----------|
| (C <sub>3</sub> F <sub>6</sub> ) <sub>x</sub> (C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> ) <sub>y</sub> | 99up   | 9011-17-0 |

## Section 4: First aid measures

Inhalation If exposed to fumes from overheating or combustion, remove to fresh air. Keep warm and at rest. If breathing has stopped, give artificial respiration. Call a physician.

Skin Contact The compound is not likely to be hazardous, but cleansing the skin after use. If skin contact with hot material occurs: DO NOT ATTEMPT TO REMOVE POLYMER. Immediately cool with plenty of cold water. Have burn treated by a physician.

Eyes Contact Immediately flush eyes with plenty of water for at least 15 minutes. (remove contact lenses if easily possible). Consult a physician.

Ingestion Wash out mouth with water. Consult a physician.

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## SECTION 5: Fire-fighting measures

### General Information:

Non-flammable.

### Extinguishing Media:

Water Spray, Dry Chemical. Foam. Carbon Dioxide.

### Fire fighting procedures:

Keep personnel removed and upwind of fire.

Wear self-contained breathing apparatus (SCBA) and full protective equipment.

### WARNING:

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.

## SECTION 6: Accidental release measures

### General Information:

Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Shovel or sweep up.

## SECTION 7: Handling and storage

### Handling:

Use proper personal protective equipment as indicated in Section 8.

Use in well ventilated areas.

Avoid contact with eyes and skin and breathing of particles.

Wash hands thoroughly, after handling.

Wash clothing after use.

Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material.

Follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

### Storage:

Keep containers tightly closed when not in use.

Keep away from direct heat or sunlight.

## SECTION 8: Exposure controls / personal protection

### Engineering Controls:

Use local exhaust ventilation facilities when molding or curing.

### Personal Protective Equipment:

Eyes Wear safety glasses with side shields.

Skin Wear appropriate gloves, when handling this material to prevent thermal burns.

Clothing Wear protective clothing and boots as required

Respirators Where a cartridge/canister respirator is suitable use: ABEK.

### Exposure Guidelines:

HF TLV: (as F): 3ppm; (ceiling values)(ACGIH 1999)

MAK: 3ppm; 2.5mg/m<sup>3</sup>, BAT 7mg/g creatinine (1999)

MAK as STEL: 6ppm, 5mg/m<sup>3</sup> (1999)

COF2 TLV: 2ppm; 5.4mg/m<sup>3</sup> (as TWA);

5ppm; 13mg/m<sup>3</sup> (as STEL) (ACGIH 1997)

PFIB TLV: 0.01ppm; 0.082 mg/m<sup>3</sup> (ceiling values) (ACGIH 1993-1994).

### If thermal decomposition occurs:

Mask for acidic gases must be used to avoid inhalation of the product.

Wear full personal protective equipment including suitable respiratory protective equipment. Where

a cartridge/canister respirator is suitable use: ABEK.

### SECTION 9: Physical and chemical properties

|                   |   |
|-------------------|---|
| Form:             | solid   |
| Color:            | white to yellow   |
| ODOR:             | no  |
| Boiling point:    | Not applicable  |
| Melting Point:    | Not applicable  |
| Specific gravity: | 1.8-2.1 (25 C)  |
| Flash point:      | no  |
| Flammable Limits: | No data   |
| Solubility:       |   |
| - water           | insoluble   |
| - fat             | soluble in ketones, esters, ethers and perfluoroalkanes |

### SECTION 10: Stability and reactivity

#### Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

#### Conditions to Avoid:

Ignition sources, excess heat

#### Incompatibility with Other Materials:

Incompatible or can react with finely divided metal powders (e.g., aluminium and magnesium)  
Compounding with metal powders can cause fire, an explosion.

#### Decomposition:

Carbon monoxide, carbon dioxide, HF, toxic gases or particles may be formed during combustion.

### SECTION 11: Toxicological information

When heated for a long time, a very small quantity of hydrogen fluoride (HF), carbonyl fluoride (COF<sub>2</sub>) Perfluoroisobutylene (PFIB) is generated. Further the higher temperature, the larger it will increase.

(as HF or COF<sub>2</sub>)

Burning sensation. Cough. Dizziness. Headache. Laboured breathing. Nausea. Shortness of breath.  
Sore throat. Vomiting. Symptoms may be delayed.  
Inhalation of this gas or vapour may cause lung oedema.

(as PFIB)

The substance irritates the respiratory tract. Inhalation of this gas may cause lung oedema.  
Exposure may result in death. The effects may be delayed. Medical observation is indicated.

### SECTION 12: Ecological information

Exotoxicity is expected to be low based on the near zero water solubility of the polymer. Material is considered inert and not expected to be biodegradable or toxic.

### SECTION 13: Disposal considerations

Dispose of in compliance with Federal, state and local government regulations.  
Usually considered an inert material that can be recycled or land filled.  
Incineration is not a preferred disposal method because of the possible formation of hydrogen fluoride.

### SECTION 14: Transport information

Shipping Name: None  
Hazard Class: Not regulated  
Label(s): None  
UN/NA Number: None  
IATA: Not regulated by IATA  
IMO IMDG-code: Not regulated for ocean transportation

### SECTION 15: Regulatory information

NFPA-HMIS RATINGS (SCALE 0-4): HEALTH=1, FIRE=0, REACTIVITY=0

European Labeling in Accordance with EC Directives

Hazard Symbols -

Risk Phrases -

Safety Phrases 15: Keep away from heat.

20/21: When using, do not eat, drink or smoke.

SARA Title III

Section 311-312 Hazard Categories:

Immediate: [No] Delayed: [No] Fire: [No] Reactivity: [No] Release of pressure: [No]

TSCA Chemical Inventory All components are listed.

Canadian DSL Inventory All components are listed.

Australian Inventory All components are listed.

Korea Inventory Listed as the polymer: KE-18544

Philippine Inventory All components are listed.

Japan Inventory Listed as the polymer: ENCS: (6)-947, ISHL: 9-(0)-851

EINECS Number All components are listed.

### SECTION 16: Other information

This product is not designed, manufactured, or intended for medical uses, including implantation to the body or other applications in direct contact with body fluids or tissues.

Do not use for non-industrial applications.

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. The information does not relate to use in combination with any other material or in any process.

DAIKIN INDUSTRIES, LTD. CHEMICAL DIVISION:

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