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

### 1.1 Product identifier

Trade name: DAIFREE GF-700Article number: GF700 STD1.2 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

## **SECTION 2: Hazard identification**

Europe: +49-211-179 225-0

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.



H304 May be fatal if swallowed and enters airways.



Asp. Tox. 1

Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Irrit. 2H315 Causes skin irritation.STOT SE 3H336 May cause drowsiness or dizziness.Hazard description:Xi IrritantF+ Extremely flammableN Dangerous for the environment

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation. Signal word: Danger



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Precautionary	statements:
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+I	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
SECTION 3	B: Composition/information on ingredients

SECTION 3:	Composition/information on ingredients	
Information on	ingredients:	
	Fluoropolymer	< 5%
	Silicon compound	< 5%
CAS: 108-88-3	Toluene Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	< 5%
CAS: 111-65-9	octane Xn R65; Xi R38; F R11; N R50/53 R67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336	< 5%
CAS: 26635-64-	3 isooctane Xn R65; Xi R38; F R11; N R50/53 R67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336	70-80%
CAS: 123-86-4	n-Butyl acetate R10-66-67 Flam. Liq. 3, H226 STOT SE 3, H336	15-25%
Ŭ	Others mation: For the wording of the listed hazard phrases refer to section 16. First aid measures	< 5%

4.1 Description of first aid measures

General information: Seek medical treatment.

*After inhalation:* Supply fresh air; consult doctor in case of complaints. *After skin contact:* 

Remove contaminated clothes immediately.

Immediately wash with water and soap and rinse thoroughly.



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Consult a doctor in case of complaints.
After eye contact:
Immediately rinse with a lot of water for several minutes. Remove contact lenses if possible. Continue rinsing.
Consult an ophthalmologist in case of complaints.
After swallowing:
Do not induce vomiting; Consult a doctor immediately.
Rinse mouth with water. Do not induce vomitting.
Consult a doctor in case of complaints.
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: Alcohol resistant foam Fire-extinguishing powder Dry sand C02 For safety reasons unsuitable extinguishing agents: Water with full jet 5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire. Receptacle may explode when heated. Extremely flammable; can ignite easily with heat, sparks, fire. 5.3 Advice for firefighters: Remove receptacles from area of fire if possible. **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.

Stay on the windward side.

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.

Prevent seepage into sewage system, workpits and cellars.

#### 6.3 Methods and material for containment and cleaning up:

In case of spill a small amount of product, and recovering what was wiped off, use an antistatic tool.

Do not flush with water or aqueous cleansing agents

For a small amount of leakage: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) or collect in an empty container that can be sealed tightly.

For a small amount of leakage: Use clean anti-static tools when absorbing the product.

For a large amount of leakage: Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect. Remove ignition sources immediately.

Ground all equipment when the product leaks.

There is a danger of explosion. Prepare fire extinguisher in case of emergency.

#### 6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.



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See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling: Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace. Handle with care. Avoid jolting, friction and impact. Do not handle until all safety precautions have been read and understood. Information about fire - and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Use flame proof electric/lighting devices and ventilation equipment. Ground/bond container and receiving equipment. 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. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product. Keep containers tightly sealed. Information about storage in one common storage facility: Store away from oxidising agents. See section 10 for information on incompatible materials. Further information about storage conditions: Keep at 0 - 35 °C, there is a risk of polymerization. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Do not seal receptacle gas tight. Store in cool, dry conditions in well sealed receptacle. Protect from heat and direct sunlight. Store containers in a well ventilated area. Store locked up. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists valid during the making were used as basis.
8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Store protective clothing separately.
Wash hands hafter a monitoring the state of the state of the state.

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

Keep away from tobacco products.

## **Respiratory protection:**

Use respiratory protective device with filters for organic and acid gas (or airline respirators in some cases) if formation of toxic gases is possible while the product is heated. Use respiratory protective device with organic gas cartridge.

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#### **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

Material of gloves: Synthetic rubber gloves 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:

Safety glasses

**Body protection:** Protective work clothing

SECTION 9: Physical and chem	nical properties
9.1 Information on basic physical and General Information Appearance Form: Colour: Odour: Odour threshold:	chemical properties Liquid Transparent Characteristic Not determined.
pH-value: Melting point/freezing point: Initial boiling point and boiling range:	No further information available. No further information available. No further information available.
Flash point:	7 °C (SCC)
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	No further information available.
Auto-ignition temperature: Explosive properties:	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits: Lower explosive limit: Upper explosive limit:	No further information available. No further information available.
Vapour pressure:	No further information available.
Density: Relative density Vapour density Evaporation rate	No further information available. Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient: n-octanol/water:	No further information available.



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Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information:	No further relevant information available.

### SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
10.3 Possibility of hazardous reactions: 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:
Strong acids, strong alkali, amines and alkali metals
Oxidizing agents
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** Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation No further information available. Respiratory or skin sensitisation No further information available. CMR effects Carcinogenicity No further information available. Reproductive toxicity No further information available. STOT-single exposure No further information available. May cause drowsiness or dizziness. STOT-repeated exposure No further information available. Aspiration hazard May be fatal if swallowed and enters airways. 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: No further relevant information available.12.3 Bioaccumulative potential: No further relevant information available.12.4 Mobility in soil: No further relevant information available.Ecotoxical effects: no dataRemark: Very toxic for fishAdditional ecological information:General notes:Danger to drinking water if even extremely small quantities leak into the ground.Also poisonous for fish and plankton in water bodies.Very toxic for aquatic organisms12.5 Results of PBT and vPvB assessmentPBT:No further relevant information available.

Not applicable.



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#### vPvB:

No further relevant information available. Not applicable. 12.6 Other adverse effects: No further relevant information available.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

**Recommendation:** 

Must not be disposed together with household garbage. Do not allow product to reach sewage system. 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, IMDG, IATA 14.2 UN proper shipping name: ADR: IMDG, IATA 14.3 Transport hazard class(es):

UN1866

RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS **RESIN SOLUTION** 

ADR



Class: IMDG, IATA



Class: 3 Flammable liquids. 14.4 Packing group: ADR, IMDG, IATA II 14.5 Environmental hazards: Yes (P) Marine pollutant: Special marking (ADR): Symbol (fish and tree) 14.6 Special precautions for user: Warning: Flammable liquids. EMS Number: F-E, S-E14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable. Avoid direct sunlight. Make sure of no damage, corrosion, leaks on Transport/Additional information: the receptacles. Take necessary measures for preventing cargo shift. ADR

3 Flammable liquids.

Limited quantities (LQ): Excepted quantities (EQ) 5LCode: E2

UN "Model Regulation":

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1866 RESIN SOLUTION, 3, II, ENVIRONMENTALLY HAZARDOUS



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## 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** The product is classified and labelled according to the CLP regulation. **Hazard pictograms** 



#### Signal word Danger

Hazard-determining components of labelling: isooctane octane Toluene Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof electrical/ventilating/lighting equipment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Seveso category E1 Hazardous to the Aquatic Environment

*P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t* 

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

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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 P: Marine Pollutant 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 Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

\* Data compared to the previous version altered.