

Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

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

#### 1.1 Product identifier

Trade name: <u>DAIFREE GF-700</u> Article number: GF700 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:

OSAKA UMEDA TWIN TOWERS SOUTH, 1-13-1 Umeda, Kita-ku, Osaka-shi, Osaka, 530-0001, Japan

Phone: +81-6-6147-9702 Fax: +81-6-6147-9807

Further information obtainable from: http://www.daikin.com/

1.4 Emergency telephone number:

Japan: +81-6-6349-7521

China: +86-532-8388-9090, +86-21-34151689

South Korea: +82-2-568-1722

Americas: CHEMTREC +1-800-424-9300 (Outside US/Canada: +1-703-527-3887)

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



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



Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



Aquatic Acute 1 H400 Very toxic to aquatic life.

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



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### 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

#### Hazard-determining components of labelling:

Isooctane n-Butyl acetate

Octane

### 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.



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

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 [or

shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

### SECTION 3: Composition/information on ingredients

### Information on ingredients:

Fluoropolymer < 5%

Silicon compound < 5%

CAS: 108-88-3 Toluene

Toluene < 5% Flam. Liq. 2, H225

Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304

Skin Irrit. 2, H315; STOT SE 3, H336

CAS: 111-65-9 Octane < 5%

Flam. Liq. 2, H225 Asp. Tox. 1, H304

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Irrit. 2, H315; STOT SE 3, H336

CAS: 26635-64-3 Isooctane 70-80%

Flam. Liq. 2, H225 Asp. Tox. 1, H304

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Irrit. 2, H315; STOT SE 3, H336

CAS: 123-86-4 n-Butyl acetate 15-25%

Flam. Liq. 3, H226 STOT SE 3, H336 EUH066

Others < 5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

# SECTION 4: First aid measures

# 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.

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 vomiting.

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.



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

# Suitable extinguishing agents:

Alcohol resistant foam

Fire-extinguishing powder

Dry sand

CO2

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.

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.



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

#### 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

#### **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

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

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.

#### Hand protection

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



# 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.



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

#### Eye/face protection



Body protection: Protective work clothing

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**General Information** 

Physical stateFluidColour:TransparentOdour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Undetermined.Boiling point or initial boiling point and boiling rangeUndetermined.FlammabilityNot applicable.

Lower and upper explosion limit

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

Upper explosive limit:Not determined.Flash point:7 °C (SCC)

**Decomposition temperature:** No further information available.

**H** Not determined.

Viscosity:

**Kinematic viscosity Dynamic:**Not determined.
Not determined.

Solubility

water: Insoluble.

Partition coefficient n-octanol/water (log value)No further information available.Vapour pressure:No further information available.

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot determined.

Particle characteristics No further information available.

9.2 Other information:

Form: Liquid

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible.

**Evaporation rate** Not determined.

Information with regard to physical hazard classes

ExplosivesNot applicableFlammable gasesNot applicableAerosolsNot applicableOxidising gasesNot applicableGases under pressureNot applicable

Flammable liquids

Highly flammable liquid and vapour.

Flammable solidsNot applicableSelf-reactive substances and mixturesNot applicablePyrophoric liquidsNot applicablePyrophoric solidsNot applicableSelf-heating substances and mixturesNot applicable

Substances and mixtures, which emit flammable gases

in contact with water Not applicable



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

Oxidising liquidsNot applicableOxidising solidsNot applicableOrganic peroxidesNot applicableCorrosive to metalsNot applicableDesensitised explosivesNot applicable

# 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity no data

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation: No further information available. Respiratory or skin sensitisation: No further information available.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: No further information available.
Reproductive toxicity: No further information available.
STOT-single exposure: No further information available.
STOT-repeated exposure: No further information available.

Aspiration hazard:

May be fatal if swallowed and enters airways.

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

Subacute to chronic toxicity: No further information available.

11.2 Information on other hazards: Endocrine disrupting properties:

None of the ingredients is listed.

# 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.

12.5 Results of PBT and vPvB assessment

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

vPvB: No further relevant information available.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects: Ecotoxical effects: no data

**Remark:** Very toxic for fish

Additional 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.



Printing date 28.03.2023 Revision: 02.08.2022 Version number 1

Trade name: DAIFREE GF-700

Very toxic for aquatic organisms

# 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 or ID number

ADR, IMDG, IATA UN1866

14.2 UN proper shipping name:

RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS ADR:

IMDG, IATA RESIN SOLUTION

14.3 Transport hazard class(es):

ADR, IMDG





Class: 3 Flammable liquids. **IATA** 

Class: 3 Flammable liquids.

14.4 Packing group:

ADR, IMDG, IATA II

14.5 Environmental hazards: Product contains environmentally hazardous substances:

Isooctane

Marine pollutant: Yes (P)

Symbol (fish and tree) Symbol (fish and tree)

Special marking (ADR): 14.6 Special precautions for user: Warning: Flammable liquids.

EMS Number: *F-E,S-E* 

14.7 Maritime transport in bulk according to IMO

Not applicable. instruments

Transport/Additional information: Avoid direct sunlight. Make sure of no damage, corrosion, leaks

on the receptacles.

Take necessary measures for preventing cargo shift.

ADR

Limited quantities (LQ): 5L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN 1866 RESIN SOLUTION, 3, II, ENVIRONMENTALLY UN "Model Regulation":

**HAZARDOUS** 

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms









GHS02

GHS07

07 GHS08 GHS09

#### Signal word Danger

#### Hazard-determining components of labelling:

Isooctane

n-Butyl acetate

Octane

#### 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 [or

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

National regulations No further information available.

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 relatif au transport international 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



Printing date 28.03.2023 Version number 1 Revision: 02.08.2022

Trade name: DAIFREE GF-700

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 - Čategory 1

\* Data compared to the previous version altered.