



## Safety Data Sheet

### REPEL FA-71C

Revision-V2:01.02,2018

#### 1. IDENTIFICATION OF THE SUBSTANCE/PRREPARATION AND OF THE COMPANY/UNDERTAKING

**Trade name:** REPEL FA-71C  
**Uses:** Water & Oil Repellent for Textiles  
**Supplier:** FARSMART CO.,LTD  
8F., No.51, Ln. 35, Jihu Rd., Neihu Dist., Taipei City 11492,  
Taiwan (R.O.C.)  
TEL:(+886) 2-27987896 Fax:(+886) 2-27987897  
  
**Manufacturer:** DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION  
Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome, Kita-Ku, Osaka,  
JAPAN TEL: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281

#### 2. HAZARDS IDENTIFICATION

*Classification of the sunstance or mixture*

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

*The product is not classified according to the CLP regulation.*

**GHS label element:** Void

#### 3. COMPOSITION/INFORMATION IN INGREDIENTS

**Description:**

Mixture: consisting of the following components.

		CAS No.
Fluorooalkyl acrylate copolymer + Emulsifiers	20-30%	—
Tripropylene glycol	2- 4%	24800-44-0
Poly(oxyethylene) alkyl(C12-14) ether	< 0.5%	—
Isopropyl alcohol	< 3%	67-63-0
Acetic Acid	< 0.5%	64-19-7
Others	< 3%	—
Water	65-70%	7732-18-5

**Dangerous components:** Void

**Additional information:**

For the wording of the listed risk phrases refer to section 16.

#### 4. FIRST AID MEASURES

**General information:** Seek immediate medical advice.

**Inhalation:** Supply fresh air; consult doctor in case of complaints.

**Skin contact:** Immediately wash with water and soap and rinse thoroughly.

**Eye contact:** Rinse opened eye for several minutes under running water.

**Swallowing:** If symptoms persist consult doctor.



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## 5. FIRE-FIGHTING MEASURES

***Suitable extinguishing agents:*** CO<sub>2</sub>, powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

***Special hazards caused by the substance, its products of combustion or resulting gases:***

Formation of toxic gases is possible during heating or in case of fire.

***Protective equipment:***

Wear fully protective suit.

Wear self-contained respiratory protective device.

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## 6. ACCIDENTAL RELEASE MEASURES

***Person-related safety precautions:*** Wear protective clothing.

***Measures for environmental :*** Do not allow to enter sewers/ surface or ground water.

***Measures for cleaning/collecting :***

Absorb with liquid-binding material(sand, diatomite, acid binders, universal binders, sawdust).

***Additional information:*** See section 8 for information on personal protection equipment.

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## 7. HANDLING AND STORAGE

***Handling:***

***Information for safe handling:***

Ensure good ventilation / exhaust at the workplace.

Prevent formation of aerosols.

***Information about fire-and explosion protection:*** No special measures required.

***Storage:***

***Requirements to be met by storerooms and receptacles:*** Provide solvent resistant, sealed floor.

***Information about storage in one common storage facility:*** Not required.

***Further information about storage conditions:*** at -5°C to 40°C.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

***Additional information about design of technical facilities:***No further data; see item 7.

***Ingredients with limit values that require monitoring at workplace:***

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

***General Protective and hygienic measures***

Keep away from tobacco products.

Avoid close or long term contact with skin.

Wash hands before breaks and at the end of work.

Do not inhale gases/fumes/aerosols.

Immediately remove all soiled and contaminated clothing.

**Respiratory protection:** Suitable respiratory protective device recommended.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

**Protection of hands:** Synthetic rubber gloves.



**Exposure limit(s) (ACGIH):** TLV: not established.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off White emulsion
Form:	Liquid
Odour:	Slightly sweetish
pH:	2-5
Boiling point:	approx. 100°C
Melting point/Melting range	undetermined
Flash point:	Not available
Solubility in water:	Fully miscible
Vapour pressure:	23hPa
Density:	1.04 g/cm <sup>3</sup>
Viscosity:	No data
Thermal decomposition:	200°C
Ignition temperature:	Not application
Danger of explosion:	Product does not present an explosion hazard

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## 10. STABILITY AND REACTIVITY

### Reactivity

### Chemical stability

**Thermal decomposition/ Conditions to avoid:** No decomposition if used according to specification.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** : No further relevant information available.

**Dangerous decomposition products:** Danger of forming toxic pyrolysis products.

Fluorophosgene on contact with naked flame or red hot objects.

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

### Acute toxicity

### LD/LC50 value relevant for classification

LD50 oral: > 2000 mg/Kg(rat)(Non GLP)

### Other information(about experimental toxicology):

Acute Dermal Irritation/Corrosion(non GLP): not irritating

Acute Eye Irritation/Corrosion(non GLP): slight irritating

Skin Sensitisation: Local Lymph Node Assay( OECD TG 429): not to be a skin sensitizer



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## 12. ECOLOGICAL INFORMATION

### **Toxicity**

Aquatic toxicity: *No further relevant information available*

Persistence and degradability: *No further relevant information available*

### **Behaviour in sewage processing plant:**

**Bioaccumulative potential:** *No further relevant information available*

**Mobility in soil:** *No further relevant information available*

### **Additional Ecology Data:**

**General notes:** Do not allow product to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:** *not available.*

**vPvB:** *Not available*

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

COD : 54,000 mg O/L

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## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

#### **Recommendation:**

Must not be disposed toger with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

### **Uncleaned packageing:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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## 14. TRANSPORT INFORMATION

UN- Number

ADR, AND, IMDG IATA

Not applicable

UN proper shipping nameUpper

ADR, AND, IMDG IATA

Not applicable.

Transport hazard classes

ADR, AND, IMDG IATA

Not applicable.

Class

Not applicable.

Packing guoup

ADR, IMDG, IATA

Not applicable.

Environmentl hazard

Marine pollutant

No

Specail precautions for user

No

Transport in bulk according to AnnexII of

MARPOL 73/78 and the IBC Code

No

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## 15. REGULATORY INFORMATION

### **National regulations:**

**TSCA INVENTORY:** *all components of this product are in compliance with the in the inventory listing requirements of the U. S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.*

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FARBRAVE CO., LTD.



遠巧股份有限公司  
FARSMART CO., LTD.

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8F., No.51, Ln. 35, Jihu Rd., Neihu Dist., Taipei City 11492, Taiwan (R.O.C.)

*KOREA INVENTORY: all components of this product are in compliance with the in the inventory listing requirements Korea. Existing chemicals Inventory(KECI)*

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## 16. OTHER INFORMATION

***The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific prodduct features and shall not establish a legally valid contractual relationship.***

### ***Abbreviations and acronyms:***

ADR : Accord europeen sur le transport des marchandises par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID : reglement internationale concernent le transport des marchandises par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG : International maritime Code for Dangerous Goods  
IATA : International Air Transport Association  
IATA-DR : Dangerous Goods Regulation by the « International Air Transport Association »(IATA)  
ICAO : International Civil Aviation Organization  
ICAO-TI : Teachincal Instructions by the « International Civil Aviation Organization »(ICAO)  
GHS : Globally Harmonized System of Classification and Labelling of Chemicals  
LC50 : Lethal concentration, 50 percent  
LD50 : Lethal dose, 50 percent

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