

# Safety Data Sheet

Report No.: SHA03-24030670-JC-01En

Sample Name: Multi-Surface Floor Cleaner HFF3

Client: Dreame Trading (Tianjin) Co., Ltd.

Warranty of Design: GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Tenth revised edition

Shanghai WEIPU Testing Technology Group Co., LTD.



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**Issued Date:**

2024-03-07

## Safety Data Sheet

# Multi-Surface Floor Cleaner HFF3

Version: V2.0.0.1

Report No.: SHA03-24030670-JC-01En

Creation Date: 2024/03/06

Revision Date: 2024/03/06

\*Prepared according to UN GHS (the 10th revised edition)

## 1 Identification

### Product identifier

Product Name	Multi-Surface Floor Cleaner HFF3
Cat No.	-
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

### Recommended use of the product and restrictions on use

Relevant identified uses	Used for floor and other hard surface cleaning.
Uses advised against	Inswallowing.

### Details of the supplier

Applicant Name	Dreame Trading (Tianjin) Co., Ltd.
Applicant Address	Room 2112-1-1, South District, Finance and trade Center, 6975 Yazhou Road, Dongjiang Bonded Port Area, Tianjin Pilot Free Trade Zone, 300463 Tianjin, China
Applicant Post Code	215164
Applicant Telephone	4008557500
Applicant Fax	—
Applicant E-mail	Yangqing700501@163.com
Supplier Name	Dreame Trading (Tianjin) Co., Ltd.
Supplier Address	Room 2112-1-1, South District, Finance and trade Center, 6975 Yazhou Road, Dongjiang Bonded Port Area, Tianjin Pilot Free Trade Zone, 300463 Tianjin, China
Supplier Post Code	215164
Supplier Telephone	4008557500
Supplier Fax	—
Supplier E-mail	Yangqing700501@163.com

### Emergency phone number

Emergency phone number	4008557500
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## 2 Hazard(s) identification

### Hazard classification according to GHS

Serious Eye Damage/Irritation	Category 2
Acute Toxicity – Inhalation	Category 5

### GHS Label elements

Hazard pictograms	
Signal word	<b>Warning</b>

### Hazard statements

H319	Causes serious eye irritation
H333	May be harmful if inhaled

### Precautionary statements

#### ◆ Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P264+P265	Wash hands and other parts of the body (if related) thoroughly after handling. Do not touch eyes.

#### ◆ Response

P304+P317	IF INHALED: Get medical help.
P337+P317	If eye irritation persists: Get medical help.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### ◆ Storage

Storage	Not applicable
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#### ◆ Disposal

Disposal	Not applicable
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### Hazard description

#### ◆ Physical and chemical hazards

	No information available
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#### ◆ Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
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<b>Ingestion</b>	Accidental ingestion of the product may be harmful to the health of the individual.
<b>Skin Contact</b>	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
<b>Eye</b>	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.

◆ Environmental hazards

Please refer to 12th chapter of SDS.

### 3 Composition/information on ingredients

#### Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (%)
Alkyl glucoside	68515-73-1	-	0.1~2
1,2-Benzisothiazolin-3-	2634-33-5	220-120-9	0.05~0.08
Pigment	-	-	< 0.01
Perfume	-	-	<= 0.1
disodium Sodium edetate	64-02-8	200-573-9	0.1~0.5
propylene oxide and ethylene oxide	9003-11-6	618-355-0	0.1~1
2-Methyl-2,4-pentanediol	629-11-8	211-074-0	0.3~3
Water	7732-18-5	231-791-2	93.31~99.2

### 4 First-aid measures

#### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms/effects, acute and delayed

- |   |  |
|---|--|
| 1 | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. |
|---|--|

### Indication of any immediate medical attention and special treatment needed

- |   |                          |
|---|--------------------------|
| 1 | Treat symptomatically.   |
| 2 | Symptoms may be delayed. |

## 5 Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

### Specific hazards arising from the substance or mixture

- |   |   |
|---|---|
| 1 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 2 | May expansion or decompose explosively when heated or involved in fire.           |

### Special protective equipment and precautions for fire-fighters

- |   |   |
|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover.   |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system.                         |

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- |   |   |
|---|---|
| 1 | Use personal protective equipment, do not breathe gas/mist/vapour/spray.  |
| 2 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 3 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.                                   |

### Environmental precautions

- |   |   |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided.       |

### Methods and materials for containment and cleaning up

- |   |  |
|---|--|
| 1 | Cut off the source of the leak as much as possible.  |
| 2 | Keep leaks in a ventilated place.  |
| 3 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 4 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.                                     |

- |   |   |
|---|---|
| 5 | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container. |
|---|---|

## 7 Handling and storage

### Precautions for safe handling

- |   |   |
|---|---|
| 1 | Handling is performed in a well ventilated place.     |
| 2 | Wear suitable protective equipment.                   |
| 3 | Avoid contact with skin and eyes.                     |
| 4 | Keep away from heat/sparks/open flames/ hot surfaces. |

### Conditions for safe storage, including any incompatibilities

- |   |  |
|---|--|
| 1 | Keep containers tightly closed.                                  |
| 2 | Keep containers in a dry, cool and well-ventilated place.        |
| 3 | Keep away from heat/sparks/open flames/hot surfaces.             |
| 4 | Store away from incompatible materials and foodstuff containers. |

## 8 Exposure controls/personal protection

### Control parameters

<b>Occupational Exposure limit values</b>	No relevant regulations
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#### ◆ Biological limit values

<b>Biological limit values</b>	No relevant regulations
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#### ◆ Monitoring methods

- |   |   |
|---|---|
| 1 | EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |
| 2 | GBZ/T 300 series standard Determination of toxic substances in workplace air.   |

### Engineering controls

- |   |  |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas.                             |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment.                         |
| 4 | Set up emergency exit and necessary risk-elimination area.                             |

### Personal protection equipment

<b>General requirement</b>	    
<b>Eye protection</b>	Must wear appropriate safety goggles.
<b>Hand protection</b>	Must wear appropriate chemical protective gloves.

<b>Respiratory protection</b>	Must wear appropriate personal respiratory protective equipment.
<b>Skin and body protection</b>	Must wear appropriate chemical protective clothing and chemical resistant shoes.

## 9 Physical and chemical properties

### Physical and chemical properties

<b>Physical state</b>	Blue Liquid
<b>Colour</b>	Blue Liquid
<b>Odor</b>	稍有香味
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing point(°C)</b>	No information available
<b>Initial boiling point and boiling range(°C)</b>	>35
<b>Flash point(Closed cup, °C)</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	No information available
<b>Upper/lower explosive limits[% (v/v)]</b>	Upper limit: No information available; Lower limit: No information available
<b>Vapor pressure</b>	No information available
<b>Relative vapour density(Air = 1)</b>	No information available
<b>Relative density(Water=1)</b>	No information available
<b>Solubility</b>	No information available
<b>n-octanol/water partition coefficient</b>	No information available
<b>Auto-ignition temperature(°C)</b>	No information available
<b>Decomposition temperature(°C)</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Particle characteristics</b>	Not applicable

## 10 Stability and reactivity

### Stability and reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.

<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
<b>2-Methyl-2,4-pentanediol</b>	3730mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
<b>1,2-Benzisothiazolin-3-propylene oxide and ethylene oxide</b>	1020mg/kg(Rat)	No information available	No information available
	5700mg/kg(Rat)	No information available	0.32mg/L(Rat)

### Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
<b>Alkyl glucoside</b>	Not Listed	Not Listed
<b>1,2-Benzisothiazolin-3-Pigment</b>	Not Listed	Not Listed
<b>Perfume</b>	Not Listed	Not Listed
<b>disodium Sodium edetate</b>	Not Listed	Not Listed
<b>propylene oxide and ethylene oxide</b>	Not Listed	Not Listed
<b>2-Methyl-2,4-pentanediol</b>	Not Listed	Not Listed
<b>Water</b>	Not Listed	Not Listed

### Others

<b>Multi-Surface Floor Cleaner HFF3</b>	
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Causes serious eye irritation(Category 2)
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met

<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

## 12 Ecological information

### Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
<b>2-Methyl-2,4-pentanediol</b>	LC <sub>50</sub> : 4640mg/L (96h)(Fish)	No information available	No information available
<b>1,2-Benzisothiazolin-3-</b>	LC <sub>50</sub> : 2.15mg/L (96h)(Fish)	EC <sub>50</sub> : 4.4mg/L (48h)(Crustaceans)	No information available
<b>Alkyl glucoside</b>	LC <sub>50</sub> : 100.81mg/L (96h)(Fish)	No information available	No information available
<b>disodium Sodium edetate</b>	LC <sub>50</sub> : 1550mg/L (96h)(Fish)	No information available	No information available

### Chronic aquatic toxicity

<b>Chronic aquatic toxicity</b>	No information available
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### Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
<b>1,2-Benzisothiazolin-3-</b>	High	High
<b>propylene oxide and ethylene oxide</b>	Low(Half-life = 11.88 days)	High(Half-life = 381.96 days)
<b>2-Methyl-2,4-pentanediol</b>	Low	Low

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
<b>1,2-Benzisothiazolin-3-</b>	Low	Log Kow=2.73
<b>propylene oxide and ethylene oxide</b>	Low	BCF=35
<b>2-Methyl-2,4-pentanediol</b>	Low	Log Kow=-0.11

### Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
1,2-Benzisothiazolin-3-	Low	103.9
propylene oxide and ethylene oxide	High	1.435
2-Methyl-2,4-pentanedio I	High	1

### Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
	Not PBT/vPvB
1,2-Benzisothiazolin-3-	Not PBT/vPvB
disodium Sodium edetate	Not PBT/vPvB
propylene oxide and ethylene oxide	Insufficient information, temporarily unable to evaluate
2-Methyl-2,4-pentanedio I	Not PBT/vPvB
Water	Insufficient information, temporarily unable to evaluate

## 13 Disposal considerations

### Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

## 14 Transport information

### Label and Mark

Transporting Label	Not applicable
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### IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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## 15 Regulatory information

### International chemical inventory

Component	EC inventor y	TSCA	DSL	IECS C	NZIo C	PICCS	KECI	AIIC	ENC S
Alkyl glucoside	√	√	√	√	√	√	√	√	√
1,2-Benzisothiazolin-3	√	√	√	√	√	√	√	√	√
Pigment	×	×	×	×	×	×	×	×	×
Perfume	×	×	×	×	×	×	×	×	×
disodium Sodium edetate	√	√	√	√	√	√	√	√	√
propylene oxide and ethylene oxide	×	√	√	√	√	√	√	√	√
2-Methyl-2,4-pentaned iol	√	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	√

[EC inventory]	European Inventory of Existing Commercial Chemical Substances
[TSCA]	United States Toxic Substances Control Act Inventory
[DSL]	Canadian Domestic Substances List
[IECSC]	China Inventory of Existing Chemical Substances
[NZIoC]	New Zealand Inventory of Chemicals
[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIIC]	Australian. Inventory of Industrial Chemical (AIIC)
[ENC S]	Japan Inventory of Existing & New Chemical Substances

Note:

- “√” Indicates that the substance included in the regulations.  
 “×” No data or not included in the regulations.

## 16 Other information

### Information on revision

Creation Date	2024/03/06
Revision Date	2024/03/06
Reason for revision	-

### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.  
 [2] IARC, website: <http://www.iarc.fr/>.  
 [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemp>  
 [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.  
 [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.  
 [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.  
 [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.  
 [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

## Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>ow</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

## Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 10th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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