

# SAFETY DATA SHEET



## Capstone™ FS-3000

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2023/08/28
7.1	2024/10/17	1702756-00018	Date of first issue: 2017/05/31

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Capstone™ FS-3000

SDS-Identcode : 130000143937

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

Recommended use : Intermediate

Restrictions on use : For industrial use only.  
Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative.

#### Manufacturer or supplier's details

Company : Chemours Korea Inc.

Address : 12FL, Majestarcity Tower 1, 12, Seocho-daero 38-gil, Seocho-gu, Seoul 06655, Korea

Telephone : 82-2-2015-5000

Emergency telephone number : 080-880-0454

Telefax : 82-2-2015-5091

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Specific target organ toxicity - repeated exposure : Category 2 (spleen)

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements

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Hazard pictograms



Signal word

: Warning

Hazard statements

: H302 Harmful if swallowed.  
H373 May cause damage to organs (spleen) through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

**Prevention:**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P314 Get medical advice/ attention if you feel unwell.

**Disposal:**

P501 Dispose of contents/ container according to waste-related laws

**Other hazards which do not result in classification**

Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema).

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

**Components**

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers	No data available	52550-44-4	>= 90 - <= 100
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol	No data available	647-42-7	>= 0.25 - < 1

### 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.

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In case of eye contact	: When symptoms persist or in all cases of doubt seek medical advice. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
In case of skin contact	: In case of contact, immediately flush skin with soap and plenty of water. Get medical attention if symptoms occur.
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
If swallowed	: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.
Protection of first-aiders	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	: Treat symptomatically and supportively.

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### 5. FIREFIGHTING MEASURES

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
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Unsuitable extinguishing media	: None known.
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Specific hazards during fire-fighting	: Exposure to combustion products may be a hazard to health.
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Hazardous combustion products	: Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Carbon oxides
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Iodine compounds

- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not breathe dust, fume, gas, mist, vapours or spray.  
Do not swallow.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

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assessment

Do not eat, drink or smoke when using this product.

Take care to prevent spills, waste and minimize release to the environment.

Do not breathe decomposition products.

Conditions for safe storage : Keep in properly labelled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : No special restrictions on storage with other products.

Further information on storage stability : Risk of crystallisation or phase separation.

Mix thoroughly before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hydrofluoric acid	7664-39-3	TWA	0.5 ppm (Fluorine)	KR OEL
	Further information: Substances designated by 'Skin' may be absorbed into the bloodstream through the skin, mucous membrane and eye and contribute to the overall effect. (Skin notation does not apply to the skin irritant)			
		C	3 ppm (Fluorine)	KR OEL
	Further information: Substances designated by 'Skin' may be absorbed into the bloodstream through the skin, mucous membrane and eye and contribute to the overall effect. (Skin notation does not apply to the skin irritant)			
		TWA	0.5 ppm (Fluorine)	ACGIH
		C	2 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	TWA	2 ppm	KR OEL
		STEL	5 ppm	KR OEL
		TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
Carbon dioxide	124-38-9	TWA	5,000 ppm	KR OEL

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		STEL	30,000 ppm	KR OEL
		TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
Carbon monoxide	630-08-0	TWA	30 ppm	KR OEL
Further information: Known human reproductive toxicant				
		STEL	200 ppm	KR OEL
Further information: Known human reproductive toxicant				
		TWA	30 ppm	KR PEL
		STEL	200 ppm	KR PEL
		TWA	25 ppm	ACGIH

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

**Personal protective equipment.** Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

**Respiratory protection** : Use respiratory protection (gas mask) unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

**Filter type** : Combined particulates, acidic gas/vapour and organic vapour type

**Eye protection** : Wear the following personal protective equipment:  
Safety glasses

**Hand protection**

**Material** : Chemical-resistant gloves

**Remarks** : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

**Skin and body protection** : Skin should be washed after contact.

**Hygiene measures** : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.

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Wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid
Colour	: yellow
Odour	: slight
Odour Threshold	: No data available
pH	: 6 - 11
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: does not flash
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
Solubility(ies) Water solubility	: slightly soluble
Relative vapour density	: Not applicable
Relative density	: 1.3 (25 °C) 1.26 - 1.28 (65 °C)
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature : > 200 °C

Viscosity  
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

Particle characteristics  
Particle size : No data available

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### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions : Reactivity:  
Not classified as a reactivity hazard.  
Chemical stability:  
Stable under normal conditions.  
Possibility of hazardous reactions:  
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : None known.

Incompatible materials : None.

#### Hazardous decomposition products

Thermal decomposition : hydrofluoric acid  
Carbonyl difluoride  
Carbon dioxide  
Carbon monoxide

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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Skin contact  
Ingestion  
Eye contact

#### Health hazard information

##### Acute toxicity

Harmful if swallowed.

##### Product:

Acute oral toxicity : Acute toxicity estimate: 1,093 mg/kg

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Method: Calculation method

### **Components:**

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Acute oral toxicity	: LD50 (Rat): 1,030 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Acute oral toxicity	: LD50 (Rat): 1,750 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50 (Rat): 5.2 - 9.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

No data available

### **Components:**

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Species	: Rabbit
Result	: No skin irritation
Remarks	: Based on data from similar materials

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

### **Serious eye damage/eye irritation**

No data available

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### Components:

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Species	:	Rabbit
Result	:	No eye irritation
Remarks	:	Based on data from similar materials

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

### **Respiratory or skin sensitisation**

#### **Respiratory sensitisation**

No data available

#### **Skin sensitisation**

No data available

### Components:

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Result	:	negative
Remarks	:	Based on data from similar materials

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative

### **Carcinogenicity**

No data available

### Components:

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

No data available

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

No data available

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### Germ cell mutagenicity

No data available

### Components:

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

No data available

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

No data available

- |                                    |  |
|------------------------------------|--|
| Genotoxicity in vitro              | : Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative<br><br>Test Type: Chromosome aberration test in vitro<br>Method: OECD Test Guideline 473<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative |
| Genotoxicity in vivo               | : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo<br>Species: Rat<br>Application Route: Ingestion<br>Method: OECD Test Guideline 486<br>Result: negative  |
| Germ cell mutagenicity- Assessment | : Weight of evidence does not support classification as a germ cell mutagen.   |

### Reproductive toxicity

No data available

### Components:

#### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

No data available

#### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

No data available

- |                      |  |
|----------------------|--|
| Effects on fertility | : Test Type: One-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Method: OECD Test Guideline 415<br>Result: negative |
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Test Type: One-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Method: OECD Test Guideline 415

Result: negative

Effects on foetal development : Test Type: Prenatal development toxicity study (teratogenicity)  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT - single exposure

No data available

#### Components:

##### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Exposure routes : Skin contact  
Assessment : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes : Ingestion  
Assessment : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes : inhalation (dust/mist/fume)  
Assessment : No significant health effects observed in animals at concentrations of 5.0 mg/l/4h or less

### STOT - repeated exposure

May cause damage to organs (spleen) through prolonged or repeated exposure.

#### Components:

##### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Target Organs : spleen  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.  
Remarks : Based on data from similar materials

##### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Exposure routes : Ingestion  
Target Organs : Liver, Teeth  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

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Exposure routes : inhalation (vapour)  
Assessment : No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

### Repeated dose toxicity

#### Components:

##### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Species : Mouse  
NOAEL : 30 mg/kg  
LOAEL : 125 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d  
Remarks : Based on data from similar materials

##### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Species : Mouse, male and female  
NOAEL : 5 mg/kg  
LOAEL : 25 mg/kg  
Application Route : Ingestion  
Exposure time : 70 Days  
Method : OECD Test Guideline 415

Species : Rat, male and female  
LOAEL : 1.5 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 28 Days  
Method : OECD Test Guideline 412

### Aspiration toxicity

No data available

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 36.7 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 28.8 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 88.3 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

EbC50 (Pseudokirchneriella subcapitata (green algae)): 50.3 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

EyC50 (Pseudokirchneriella subcapitata (green algae)): 50.1 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

##### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.48 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7.84 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EbC50 (Desmodesmus subspicatus (green algae)): 3.8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 1.3 mg/l  
Exposure time: 3 d  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Japanese medaka)): 0.0137 mg/l  
Exposure time: 122 d  
Method: OECD Test Guideline 234

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2.16 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### Persistence and degradability

#### Components:

##### **Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ethers:**

Biodegradability : Biodegradation: 62 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

##### **3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 46  
Method: OECD Test Guideline 305  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 4.54

### Mobility in soil

No data available

### Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of contents and container according to wastes control act.

Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste han-

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ding site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

### Disposal precautions

Dispose of contents and container according to wastes control act.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

#### IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

#### IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### Special precautions for user

Not applicable



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### 15. REGULATORY INFORMATION

#### National regulatory information

##### Regulation under the Occupational Safety and Health Act

##### Harmful Substances Prohibited from Manufacturing

Not applicable

##### Harmful Substances Required Permission for Manufacture

Not applicable

##### Harmful Agents to be kept below Occupational Exposure Limits

Not applicable

##### Harmful Agents Required to be kept below Permission Levels

Not applicable

##### Hazardous substances requiring management

Not applicable

##### Special Management Materials

Not applicable

##### Controlled Substances Subject to Environment Monitoring

Not applicable

##### Controlled Substances Subject to Health Examination

Not applicable

##### Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

##### K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Not applicable

##### K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Not applicable

##### Regulation under the Chemicals Control Act

##### Toxic Chemicals

Not applicable

##### Restricted Chemicals

Not applicable

##### Prohibited Chemicals

Not applicable

##### Toxic Release Inventory

Not applicable

##### Accident Precaution Chemicals

Not applicable

# SAFETY DATA SHEET



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### **Dangerous Substances Safety Management Act**

Not Applicable to Dangerous Materials

### **Wastes Control Act**

Industrial general wastes

Follow article 13 of the act to dispose the product waste

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## **16. OTHER INFORMATION**

Other information : Chemours™ and the Chemours Logo are trademarks of The Chemours Company.  
Before use read Chemours safety information.  
For further information contact the local Chemours office or nominated distributors.

### **Further information**

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Issuing date : 2017/05/31

### **Revision number and date**

Number of Revision : 17

Revision Date : 2024/10/17

Date format : yyyy/mm/dd

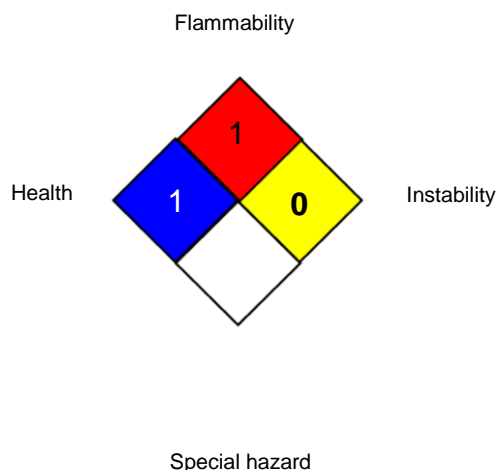
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### NFPA:



### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
KR OEL	: Harmful Agents to be kept below Occupational Exposure Limits
KR PEL	: Harmful Agents Required to be kept below Permission Levels
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
ACGIH / C	: Ceiling limit
KR OEL / TWA	: Time Weighted Average
KR OEL / STEL	: Short Term Exposure Limit
KR OEL / C	: Ceiling
KR PEL / TWA	: TWA
KR PEL / STEL	: STEL

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

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n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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