

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Capstone™ FS-3100

SDS-Identcode : 130000095223

Manufacturer or supplier's details

Company : The Chemours Chemical (Shanghai) Co., Ltd.

Address : 9F, SCG Parkside, 868 Yinghua Road, Pudong New District
201204, Shanghai, China

Telephone : 86 400 8056 528

Emergency telephone number : 86 532 8388 9090

E-mail address : SDS.ChinaPSR@chemours.com

Telefax : 86 21 2612 0862

Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

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.

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : liquid
Colour : yellow, amber
Odour : slight

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

GHS Classification

Acute toxicity (Oral) : Category 4
Specific target organ toxicity - repeated exposure : Category 2 (spleen)

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

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 mist or vapours.
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 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth.
P319 Get medical help if you feel unwell.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

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



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

Substance / Mixture : Substance
Substance name : Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether
CAS-No. : 52550-44-4

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|--|------------|-----------------------|
| Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether | 52550-44-4 | >= 90 -<= 100 |
| 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctan-1-ol | 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.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

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 : Inhalation may provoke the following symptoms:
Lung oedema
Shortness of breath
Eye contact may provoke the following symptoms
Irritation
Lachrymation
Redness
Discomfort
Ingestion may provoke the following symptoms:
Nausea
Vomiting
Diarrhoea
tearing



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: |
| 12.0 | 2025/07/22 | 1338299-00049 | 2024/11/04 |
| | | | Date of first issue: 2017/02/27 |

Redness
Discomfort
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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Hydrogen fluoride
carbonyl fluoride
potentially toxic fluorinated compounds
aerosolized particulates
Carbon oxides

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 measures : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal pro-



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: |
| 12.0 | 2025/07/22 | 1338299-00049 | 2024/11/04 |
| | | | Date of first issue: 2017/02/27 |

- gency procedures : tective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
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 : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
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

Handling

- 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 mist or vapours.
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 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.
- Avoidance of contact : Oxidizing agents



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

Storage

- Conditions for safe storage : Keep in properly labelled containers.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents
- Packaging material : Unsuitable material: None known.

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 | MAC | 2 mg/m ³ (Fluorine) | CN OEL |
| | | TWA | 0.5 ppm (Fluorine) | ACGIH |
| | | C | 2 ppm (Fluorine) | ACGIH |
| Carbonyl difluoride | 353-50-4 | PC-TWA | 5 mg/m ³ | CN OEL |
| | | PC-STEL | 10 mg/m ³ | CN OEL |
| | | TWA | 2 ppm | ACGIH |
| | | STEL | 5 ppm | ACGIH |
| Carbon dioxide | 124-38-9 | PC-TWA | 9,000 mg/m ³ | CN OEL |
| | | PC-STEL | 18,000 mg/m ³ | CN OEL |
| | | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| Carbon monoxide | 630-08-0 | PC-TWA | 20 mg/m ³ | CN OEL |
| | | PC-STEL | 30 mg/m ³ | CN OEL |
| | | MAC | 20 mg/m ³ | CN OEL |
| | | MAC | 15 mg/m ³ | CN OEL |
| | | 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

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 2024/11/04 |
| 12.0 | 2025/07/22 | 1338299-00049 | Date of first issue: 2017/02/27 |

- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
- Filter type : Combined particulates and acidic gas/vapour type
- Eye/face protection : Wear the following personal protective equipment:
Safety glasses
- Skin and body protection : Skin should be washed after contact.
- 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.
- 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.
Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : yellow, amber
- Odour : slight
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 2024/11/04 |
| 12.0 | 2025/07/22 | 1338299-00049 | Date of first issue: 2017/02/27 |

| | | |
|--|---|--|
| Flash point | : | No data available |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Solubility(ies) Water solubility | : | slightly soluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | > 200 °C |
| Viscosity Viscosity, kinematic | : | No data available |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics Particle size | : | Not applicable |

10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|--|
| Reactivity | : | Not classified as a reactivity hazard. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated |

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 2024/11/04 |
| 12.0 | 2025/07/22 | 1338299-00049 | Date of first issue: 2017/02/27 |

temperatures.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Hydrofluoric acid
Carbonyl difluoride
Carbon dioxide
Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 415.38 mg/kg
Method: Calculation method

Components:

Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether:

Acute oral toxicity : LD50 (Rat): 410 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

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

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 inhala-

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

Acute dermal toxicity : tion toxicity
: LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Components:

Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether:

Species : Rabbit
Result : No skin irritation

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

Not classified based on available information.

Components:

Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether:

Species : Rabbit
Result : No eye irritation

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

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether:

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



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

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

Germ cell mutagenicity

Not classified based on available information.

Components:

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

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with
mammalian liver cells in vivo
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 486
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ
cell mutagen.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

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

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

Test Type: One-generation reproduction toxicity study

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

| | |
|------------------------------------|--|
| | 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

Not classified based on available information.

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) ether:

Target Organs : spleen
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

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.

Exposure routes : inhalation (vapour)
Assessment : No significant health effects observed in animals at concentra-

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

|| tions 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) ether:

|| Species : Mouse
|| NOAEL : 30 mg/kg
|| LOAEL : 125 mg/kg
|| Application Route : Ingestion
|| Exposure time : 28 d

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

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether:

|| Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 36.7 mg/l
Exposure time: 96 h

|| Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 28.8 mg/l
aquatic invertebrates Exposure time: 48 h

|| Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 88.3
plants mg/l
Exposure time: 72 h

|| EbC50 (Pseudokirchneriella subcapitata (green algae)): 50.3
mg/l

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

Exposure time: 72 h

EyC50 (Pseudokirchneriella subcapitata (green algae)): 50.1 mg/l

Exposure time: 72 h

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

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:

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



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

Remarks: Does not bioaccumulate.

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

Mobility in soil

No data available

Other adverse effects

Components:

Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether:

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

Endocrine disrupting potential : Substance does not have endocrine disrupting properties.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

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



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

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

GB 6944/12268

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

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : This product is not listed in the catalogue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of determination.

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) : Not listed

Hazardous Chemicals for Priority Management under SAWS : Not listed

Catalogue of Specially Controlled Hazardous Chemicals : Not listed



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

Version 12.0 Revision Date: 2025/07/22 SDS Number: 1338299-00049 Date of last issue: 2024/11/04
Date of first issue: 2017/02/27

List of Explosive Precursors : Not listed

Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not listed

Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not listed

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

Regulations of Ozone Depleting Substances Management

List of Controlled Ozone Depleting Substances Import and Export : Not listed

List of Controlled Ozone Depleting Substances : Not listed

Environmental Protection Law

List of Priority Controlled Chemicals : Not listed

List of Key Controlled New Pollutants : Not listed

16. OTHER INFORMATION

Revision Date : 2025/07/22

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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/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Capstone™ FS-3100

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| Version | Revision Date: | SDS Number: | Date of last issue: 2024/11/04 |
| 12.0 | 2025/07/22 | 1338299-00049 | Date of first issue: 2017/02/27 |

Date format : yyyy/mm/dd

Full text of other abbreviations

| | |
|-------------------|---|
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| CN OEL | : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents. |
| ACGIH / TWA | : 8-hour, time-weighted average |
| ACGIH / STEL | : Short-term exposure limit |
| ACGIH / C | : Ceiling limit |
| CN OEL / PC-TWA | : Permissible concentration - time weighted average |
| CN OEL / PC-STEEL | : Permissible concentration - short term exposure limit |
| CN OEL / MAC | : Maximum allowable concentration |

AllC - 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; 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

Disclaimer

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

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CN / EN

