

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Vertrel™ XF Select

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 10/16/2024  |
| 8.0     | 04/16/2025     | 1332209-00046 | Date of first issue: 02/27/2017 |

### SECTION 1. IDENTIFICATION

Product name : Vertrel™ XF Select

SDS-Identcode : 130000031098

#### Manufacturer or supplier's details

Company name of supplier : The Chemours Company FC, LLC

Address : 1007 Market Street  
Wilmington, DE 19801 United States of America (USA)

Telephone : 1-844-773-CHEM (outside the U.S. 1-302-773-1000)

Emergency telephone : Medical emergency: 1-866-595-1473 (outside the U.S. 1-302-773-2000) ; Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

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

Recommended use : Cleaning agent

Restrictions on use : For professional users only.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

|| Not a hazardous substance or mixture.

#### Other hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

#### GHS label elements

|| No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : 1,1,1,2,2,3,4,5,5,5-Decafluoropentane

CAS-No. : 138495-42-8

#### Components

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| Chemical name                         | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|---------------------------------------|-------------------|-----------------------|--------------|
| 1,1,1,2,2,3,4,5,5,5-Decafluoropentane | 138495-42-8*      | >= 80 - <= 100        | TSC          |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
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.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May cause cardiac arrhythmia.  
Dizziness
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with special caution.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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  
Carbon oxides

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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 fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.  
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 diking or other appropriate containment to keep material from spreading. If diked 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.

### SECTION 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 : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment

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

Conditions for safe storage : Do not expose drums to direct heat or temperature above 46°C (115°F) to avoid pressurizing and possibly distorting the drums.  
Material should not be dispensed by pouring from pail/drum shipping containers containing 5 gallons or more. The use of a drum pump is recommended for dispensing from pail/drum shipping containers with 5 gallons or more, except for smaller containers where adequate ventilation can be used to manage the exposure.  
Keep in properly labeled containers.  
Store in accordance with the particular national regulations.

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

Recommended storage temperature : < 115 °F / < 46 °C

Further information on storage stability : The product has an indefinite shelf life when stored properly.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components                            | CAS-No.     | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------------------------------------|-------------|----------------------------------|--|-------|
| 1,1,1,2,2,3,4,5,5,5-Decafluoropentane | 138495-42-8 | TWA                              | 225 ppm<br>2,320 mg/m <sup>3</sup>             | WEEL  |
|                                       |             | STEL                             | 700 ppm<br>7,217 mg/m <sup>3</sup>             | WEEL  |

Engineering measures : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

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### Hand protection

|                 |           |
|-----------------|-----------|
| Material        | : Viton®  |
| Glove thickness | : 0.7 mm  |
| Wearing time    | : 120 min |

### Remarks

: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. 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. Breakthrough time is not determined for the product. Change gloves often!

### Eye protection

: Wear the following personal protective equipment:  
Safety glasses

### 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.  
Wash contaminated clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

: liquid

### Color

: colorless

### Odor

: slight, ether-like

### Odor Threshold

: No data available

### pH

: No data available

### Melting point/freezing point

: -118.7 °F / -83.7 °C

### Initial boiling point and boiling range

: 131 °F / 55 °C (1,013 hPa)

### Flash point

: Method: ASTM D 56, Tag closed cup  
does not flash

### Evaporation rate

: No data available

### Flammability (solid, gas)

: Not applicable

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|  |   |  |
|--|---|--|
| Flammability (liquids)                           | : | No data available  |
| Upper explosion limit / Upper flammability limit | : | Upper flammability limit<br>Method: ASTM E681<br>None.                               |
| Lower explosion limit / Lower flammability limit | : | Lower flammability limit<br>Method: ASTM E681<br>None.                               |
| Vapor pressure                                   | : | 248 hPa (68 °F / 20 °C)<br><br>313 hPa (77 °F / 25 °C)                               |
| Relative vapor density                           | : | 8.7  |
| Density  | : | 1.58 g/cm <sup>3</sup> (77 °F / 25 °C)<br><br>1.60 g/cm <sup>3</sup> (68 °F / 20 °C) |
| Solubility(ies)<br>Water solubility              | : | 0.10 - 0.14 g/l (68 °F / 20 °C)  |
| Partition coefficient: n-octanol/water           | : | log Pow: 0.43 (68 °F / 20 °C)  |
| Autoignition temperature                         | : | No data available  |
| Decomposition temperature                        | : | No data available  |
| Viscosity<br>Viscosity, dynamic                  | : | 6.7 mPa.s (77 °F / 25 °C)  |
| Viscosity, kinematic                             | : | No data available  |
| Explosive properties                             | : | Not explosive  |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing.                             |
| Particle characteristics<br>Particle size        | : | Not applicable   |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |  |
|------------------------------------|---|--|
| Reactivity                         | : | Not classified as a reactivity hazard. |
| Chemical stability                 | : | Stable under normal conditions.        |
| Possibility of hazardous reactions | : | None known.                            |

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|                                  |   |  |
|----------------------------------|---|--|
| Conditions to avoid              | : | None known.                                    |
| Incompatible materials           | : | None.  |
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401  |
| Acute inhalation toxicity | : | LC50 (Rat): 114.428 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor<br>Method: OECD Test Guideline 403<br><br>No observed adverse effect concentration (Dog): 5000 ppm<br>Test atmosphere: gas<br>Method: Cardiac sensitization study<br><br>Lowest observed adverse effect concentration (Dog): > 5000 ppm<br>Test atmosphere: gas<br>Method: Cardiac sensitization study<br><br>Cardiac sensitisation threshold limit (Dog): > 51,544 mg/m <sup>3</sup><br>Test atmosphere: gas<br>Method: Cardiac sensitization study |
| Acute dermal toxicity     | : | LD50 (Rabbit): > 5,000 mg/kg<br>Method: OECD Test Guideline 402   |

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 404 |

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|||Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

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

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Components:

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

|                    |                           |
|--------------------|---------------------------|
| Test Type          | : Buehler Test            |
| Routes of exposure | : Skin contact            |
| Species            | : Guinea pig              |
| Method             | : OECD Test Guideline 406 |
| Result             | : negative                |

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

|                                     |  |
|-------------------------------------|--|
| Genotoxicity in vitro               | : Test Type: Bacterial reverse mutation assay (AMES)                             |
|                                     | Method: OECD Test Guideline 471  |
|                                     | Result: negative   |
| Genotoxicity in vivo                | : Test Type: In vitro mammalian cell gene mutation test                          |
|                                     | Method: OECD Test Guideline 476  |
|                                     | Result: negative   |
| Genotoxicity in vivo                | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) |
|                                     | Species: Rat   |
|                                     | Application Route: inhalation (vapor)  |
| Germ cell mutagenicity - Assessment | : Method: OECD Test Guideline 474  |
|                                     | Result: negative   |
|                                     | : Weight of evidence does not support classification as a germ cell mutagen.     |



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### Carcinogenicity

Not classified based on available information.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|                                    |   |
|------------------------------------|---|
| Effects on fertility               | : Test Type: One-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapor)<br>Method: OECD Test Guideline 415<br>Result: negative           |
| Effects on fetal development       | : Test Type: Prenatal development toxicity study (teratogenicity)<br>Species: Rat<br>Application Route: inhalation (vapor)<br>Method: OECD Test Guideline 414<br>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:

##### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|                    |  |
|--------------------|--|
| Routes of exposure | : Ingestion  |
| Assessment         | : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less |
| Routes of exposure | : Skin contact   |
| Assessment         | : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less |
| Routes of exposure | : inhalation (vapor)   |
| Assessment         | : No significant health effects observed in animals at concentrations of 20 mg/l/4h or less    |

### STOT-repeated exposure

Not classified based on available information.

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### Components:

#### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|                    |   |
|--------------------|---|
| Routes of exposure | : inhalation (vapor)  |
| Assessment         | : No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less. |

### **Repeated dose toxicity**

### Components:

#### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|                   |                           |
|-------------------|---------------------------|
| Species           | : Rat, male and female    |
| NOAEL             | : 15.463 mg/l             |
| LOAEL             | : 20.618 mg/l             |
| Application Route | : inhalation (vapor)      |
| Exposure time     | : 90 Days                 |
| Method            | : OECD Test Guideline 413 |

### **Aspiration toxicity**

Not classified based on available information.

### Components:

#### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|| No aspiration toxicity classification

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### Components:

#### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

|   |  |
|---|--|
| Toxicity to fish                                    | : LC50 (Danio rerio (zebra fish)): 13 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 10.6 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202   |
| Toxicity to algae/aquatic plants                    | : EC50 (Selenastrum capricornutum (green algae)): > 120 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Scenedesmus capricornutum (fresh water algae)): 120 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other                       | : NOEC (Daphnia magna (Water flea)): 1.72 mg/l   |

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aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d  
Method: OECD Test Guideline 211

### Persistence and degradability

#### Components:

##### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

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

### Bioaccumulative potential

#### Components:

##### **1,1,1,2,2,3,4,5,5,5-Decafluoropentane:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.  
Partition coefficient: n-octanol/water : log Pow: 2.4 (75 °F / 24 °C)

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.  
Do not dispose of waste into sewer.

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.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

Not applicable

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

1,1,1,2,2,3,4,5,5,5-Decafluoropentane 138495-42-8

### International Regulations

Montreal Protocol : 1,1,1,2,2,3,4,5,5,5-Decafluoropentane

### Additional regulatory information

1,1,1,2,2,3,4,5,5,5-Decafluoropentane 138495-42-8

The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product.

See 40 CFR § 721.5645

This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:

## SECTION 16. OTHER INFORMATION

### Further information

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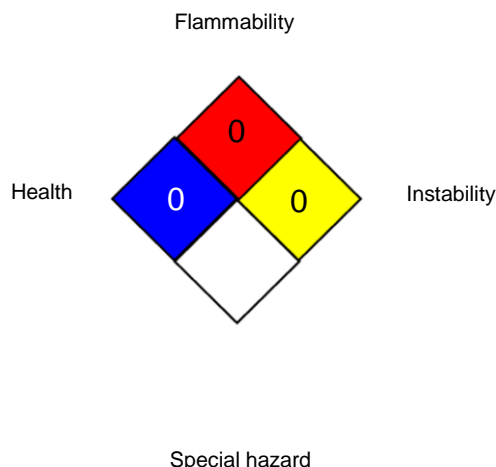
Version  
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### NFPA 704:



### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 0 |
| FLAMMABILITY    |   | 0 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "0" represents the absence of a chronic hazard.

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Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

### Full text of other abbreviations

|             |   |  |
|-------------|---|--|
| WEEL        | : | Workplace Environmental Exposure Levels (WEEL) |
| WEEL / STEL | : | Short term exposure limit                      |
| WEEL / TWA  | : | 8-hr TWA                                       |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; IECS - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

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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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - 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

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

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

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