according to the OSHA Hazard Communication Standard



# Vertrel™ XP specialty fluid

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### **SECTION 1. IDENTIFICATION**

Product name : Vertrel™ XP specialty fluid

Product code : D10675928

SDS-Identcode : 13000000164

### 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 and industrial installation and use 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 : Mixture

### Components

Chemical name	CAS No./Unique	Concentration (% w/w)		
	ID		secret	

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I	1,1,1,2,2,3,4,5,5,5- Decafluoropentane	138495-42-8*	>= 80 - <= 100	TSC
	Propan-2-ol	67-63-0*	>= 1 - <= 5	TSC

<sup>\*</sup> Indicates that the identifier is a CAS No.

# **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, 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.

Skin contact may provoke the following symptoms:

Dermatitis Irritation Pain

superficial burning sensation

Itching Redness

Swelling of tissue

Rash

Discomfort

Eye contact may provoke the following symptoms

Pain tearing

Swelling of tissue

Redness

Impairment of vision

Inhalation may provoke the following symptoms:

Unconsciousness Drowsiness

Lack of coordination

confusion Dizziness

Central nervous system depression

Effects of breathing high concentrations of vapor may include:

Tiredness Drowsiness

central nervous system effects

Convulsions

Adverse effects from repeated inhalation may include

central nervous system effects

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

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Aspiration may cause pulmonary edema and pneumonitis.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Because of possible disturbances of cardiac rhythm, ca-

techolamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with spe-

cial caution.

**SECTION 5. FIRE-FIGHTING 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 prod-

ucts

Hydrogen fluoride carbonyl fluoride Carbon oxides

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances 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 emer-

gency procedures

Follow safe handling advice (see section 7) and personal pro-

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.

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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 absor-

bent.

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 as-

sessment

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 tem- :

perature

< 115 °F / < 46 °C

Further information on stor-

age stability

: The product has an indefinite shelf life when stored properly.

according to the OSHA Hazard Communication Standard



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (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 2,320 mg/m³		WEEL
		STEL	700 ppm 7,217 mg/m <sup>3</sup>	WEEL
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		ST	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z-1

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

**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.

Hand protection

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

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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 pro-

duct. 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 wor-

king place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

: liquid Appearance

Color colorless

Odor slight, ether-like

Odor Threshold No data available

No data available

Melting point/freezing point < -112.0 °F / < -80.0 °C

Initial boiling point and boiling : 126 °F / 52 °C (1,013 hPa)

range

does not flash Flash point

Evaporation rate No data available

Flammability (solid, gas) Not applicable

Flammability (liquids) No data available

Upper explosion limit / Upper

flammability limit

Upper flammability limit Method: ASTM E681

None.

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Lower explosion limit / Lower

flammability limit

Lower flammability limit

Method: ASTM E681

None.

Vapor pressure : 93.3 hPa (32 °F / 0 °C)

Relative vapor density : 7.86

Density :  $1.530 \text{ g/cm}^3 (77 \text{ °F} / 25 \text{ °C})$ 

1.591 g/cm3 (32 °F / 0 °C)

1.456 g/cm<sup>3</sup> (122 °F / 50 °C)

Solubility(ies)

Water solubility : partly soluble

Partition coefficient: n-

octanol/water

Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 0.68 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

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 reac-

tions

None known.

Conditions to avoid : None known.

Incompatible materials : None.

Hazardous decomposition : No hazardous decomposition products are known.

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products

#### **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

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 114.428 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

No observed adverse effect concentration (Dog): 5000 ppm

Test atmosphere: gas

Method: Cardiac sensitization study

Lowest observed adverse effect concentration (Dog): > 5000

ppm

Test atmosphere: gas

Method: Cardiac sensitization study

Cardiac sensitisation threshold limit (Dog): > 51,544 mg/m³

Test atmosphere: gas

Method: Cardiac sensitization study

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

Method: OECD Test Guideline 402

### Propan-2-ol:

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

Acute inhalation toxicity : LC50 (Rat): > 25 mg/l

Exposure time: 6 h
Test atmosphere: vapor

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

# Skin corrosion/irritation

Not classified based on available information.

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### **Components:**

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

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Propan-2-ol:

Species : Rabbit

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

Propan-2-ol:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

#### 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

# Propan-2-ol:

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.

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# **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

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) Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

: Weight of evidence does not support classification as a germ

cell mutagen.

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

# Carcinogenicity

Not classified based on available information.

# **Components:**

# Propan-2-ol:

Species : Rat

Application Route : inhalation (vapor) Exposure time : 104 weeks

Method : OECD Test Guideline 451

Result : negative

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

according to the OSHA Hazard Communication Standard



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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

Species: Rat

Application Route: inhalation (vapor) Method: OECD Test Guideline 415

Result: negative

Effects on fetal development : Test Type: Prenatal development toxicity study (teratogenicity)

Species: Rat

Application Route: inhalation (vapor) Method: OECD Test Guideline 414

Result: negative

Reproductive toxicity - As-

sessment

: Weight of evidence does not support classification for repro-

ductive toxicity

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

# 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 concentra-

tions of 2000 mg/kg bw or less

Routes of exposure : Skin contact

Assessment : No significant health effects observed in animals at concentra-

tions of 2000 mg/kg bw or less

Routes of exposure : inhalation (vapor)

Assessment : No significant health effects observed in animals at concentra-

tions of 20 mg/l/4h or less

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Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

### STOT-repeated exposure

Not classified based on available information.

#### 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 concentra-

tions 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

# Propan-2-ol:

Species : Rat NOAEL : 12.5 mg/l

Application Route : inhalation (vapor) Exposure time : 104 Weeks

#### **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

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 10.6 mg/l

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aquatic invertebrates Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic EC50 (Selenastrum capricornutum (green algae)): > 120 mg/l

Exposure time: 72 h plants

Method: OECD Test Guideline 201

NOEC (Scenedesmus capricornutum (fresh water algae)): 120

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other: aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1.72 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

# 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

Propan-2-ol:

Biodegradability : Result: rapidly degradable

BOD: 1,19 (BOD5) BOD/COD

COD: 2,23 BOD/COD: 53 %

### 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)

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Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

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.

**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.

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### 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 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Propan-2-ol 67-63-0 >= 1 - < 5 %

**US State Regulations** 

Pennsylvania Right To Know

1,1,1,2,2,3,4,5,5,5-Decafluoropentane 138495-42-8 Propan-2-ol 67-63-0

**California List of Hazardous Substances** 

Propan-2-ol 67-63-0

**California Permissible Exposure Limits for Chemical Contaminants** 

Propan-2-ol 67-63-0

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- 138495-42-8

Decafluoropentane

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**

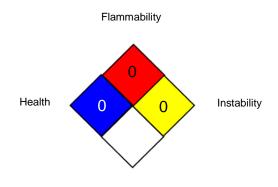
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# NFPA 704:



Special hazard

### HMIS® IV:



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 "/" represents the absence of a chronic hazard.

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

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

WEEL : Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average 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

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# Vertrel™ XP specialty fluid

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- 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; 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 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; 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

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 Agen-

cy, 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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