



## SAFETY DATA SHEET

### Vertrel™ SFR Specialty Fluid, BULK

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name** Vertrel™ SFR Specialty Fluid, BULK

**Product number** MCC-SFRL, MCC-SFRG, MCC-SFRGL, MCC-SFR0GG

**Synonyms; trade names** M2S-SFRL, M2S-SFRG, M2S-SFRGL, M2S-SFR0GG

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

**Application** Cleaning agent.

##### Details of the supplier of the safety data sheet

**Supplier** MICROCARE CORPORATION

**Manufacturer** MICROCARE CORPORATION  
595 John Downey Drive  
New Britain, CT 06051  
United States of America  
CAGE: OATV9  
Tel: + 1 800 638 0125, +1 860-827-0626  
Fax: +1 860-827-8105  
techsupport@microcare.com

##### Emergency telephone number

**Emergency telephone** CHEMTREC 1-800-424-9300 (within the U.S.)  
+1 703-741-5970 (from anywhere in the world)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**OSHA Regulatory Status** This Product is Hazardous under the OSHA Hazard Communication Standard.

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H332 STOT SE 1 - H370

**Human health** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Mild dermatitis, allergic skin rash.

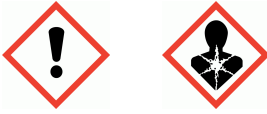
**Environmental** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Physicochemical** Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. Gas or vapor displaces oxygen available for breathing (asphyxiant).

##### Label elements

## Vertrel™ SFR Specialty Fluid, BULK

### Pictogram



### Signal word

Danger

### Hazard statements

H332 Harmful if inhaled.  
H370 Causes damage to organs .

### Precautionary statements

P261 Avoid breathing vapor/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P302+P352 If on skin: Wash with plenty of water.  
P314 Get medical advice/ attention if you feel unwell.  
P501 Dispose of contents/ container in accordance with national regulations.

### Supplemental label information

Safety data sheet available on request. For use in industrial installations only.

### Contains

trans-1,2-DICHLOROETHYLENE, METHANOL

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

<b>trans-1,2-DICHLOROETHYLENE</b>	<b>60-100%</b>
CAS number: 156-60-5	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H332	
Not relevant.	
<b>1,1,1,2,2,3,4,5,5,5-decafluoropentane</b>	<b>10-30%</b>
CAS number: 138495-42-8	
<b>Classification</b>	
Not relevant.	
<b>HEPTAFLUOROCYCLOPENTANE</b>	<b>10-30%</b>
CAS number: 15290-77-4	
<b>Classification</b>	
Not relevant.	

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<b>METHANOL</b>	<b>1-5%</b>
CAS number: 67-56-1	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370	

The full text for all hazard statements is displayed in Section 16.

**Composition comments** TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are on the TSCA Inventory.

### Composition

#### 4. First-aid measures

##### Description of first aid measures

<b>General information</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Place unconscious person on the side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration. Consult a physician for specific advice.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapor concentrations. May cause discomfort. Symptoms following overexposure may include the following: Headache. Dizziness. Nausea, vomiting.
<b>Inhalation</b>	May cause an asthma-like shortness of breath. Vapors may cause headache, fatigue, dizziness and nausea. Arrhythmia (deviation from normal heart beat).
<b>Ingestion</b>	Pulmonary edema, frothy sputum.
<b>Skin contact</b>	Skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	May cause temporary eye irritation. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

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### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Water spray. Never use water by itself on spillage; this will spread the spill and cause further contamination.

#### Special hazards arising from the substance or mixture

<b>Flammability Class</b>	The product is not flammable. Tag closed cup. TOC (Tag open cup).
<b>Specific hazards</b>	Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors. Closed containers can burst violently when heated, due to excess pressure build-up.
<b>Hazardous combustion products</b>	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Fire creates: Carbonyl compounds. Chlorides.
<b>Advice for firefighters</b>	
<b>Protective actions during firefighting</b>	Containers close to fire should be removed or cooled with water.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. No smoking, sparks, flames or other sources of ignition near spillage. Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8.
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#### Environmental precautions

<b>Environmental precautions</b>	Contain spillage with sand, earth or other suitable non-combustible material. Avoid release to the environment.
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground. Contain and absorb spillage with sand, earth or other non-combustible material. Collect spillage with a shovel and broom, or similar and reuse, if possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. It is recommended that gloves are made of the following material: Neoprene.
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<b>Reference to other sections</b>	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.
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### 7. Handling and storage

#### Precautions for safe handling

<b>Usage precautions</b>	Provide adequate ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes.
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#### Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Store in tightly-closed, original container in a dry, cool and well-ventilated place.
<b>Storage class</b>	Unspecified storage. The product is not flammable.

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### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

**Reference to other sections.** Store away from incompatible materials (see Section 10).

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

##### **trans-1,2-DICHLOROETHYLENE**

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 793 mg/m<sup>3</sup>

##### **1,1,1,2,2,3,4,5,5,5-decafluoropentane**

No information available that would effect occupational exposure limit values.

##### **METHANOL**

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m<sup>3</sup>

Sk

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

Sk = Danger of cutaneous absorption.

OSHA = Occupational Safety and Health Administration.

#### **Additional Occupational Exposure Limits**

#### **METHANOL (CAS: 67-56-1)**

**Biological limit values** 15 mg/l

#### Exposure controls

##### **Protective equipment**



##### **Appropriate engineering controls**

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

##### **Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

##### **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

##### **Other skin and body protection**

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

##### **Hygiene measures**

Avoid inhalation of spray mist and contact with skin and eyes. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

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<b>Respiratory protection</b>	Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear self-contained breathing apparatus with full facepiece.
<b>Thermal hazards</b>	Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Slight. Pleasant, agreeable.
<b>Odor threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	41°C/106°F @ 101.3 kPa
<b>Flash point</b>	Does not flash Penskey-Martins Closed Cup (ASTM D 93)
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 7.0 %(V) Upper flammable/explosive limit: 15.0 %(V)
<b>Other flammability</b>	The product is not flammable.
<b>Vapor pressure</b>	51.7 kPa @ 25°C
<b>Vapor density</b>	No information available.
<b>Relative density</b>	1.28 g/cm <sup>3</sup> @ 25°C/77°F
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	No information available.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.
<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	Not applicable.
<b>Volatility</b>	100%
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.

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<b>Volatile organic compound</b>	No information available.
<b>Flammability</b>	The product is not flammable.

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	Will not polymerize.
<b>Conditions to avoid</b>	Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.
<b>Materials to avoid</b>	Alkali metals. Alkaline earth metals. Powdered metal.
<b>Hazardous decomposition products</b>	Heating may generate the following products: Toxic and corrosive gases or vapors. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 3,571.43

##### Acute toxicity - dermal

ATE dermal (mg/kg) 10,714.29

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 14.24

<b>Inhalation</b>	Vapors may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.
<b>Ingestion</b>	May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
<b>Skin Contact</b>	Product has a defatting effect on skin. May cause allergic contact eczema.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Medical Symptoms</b>	Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

#### Toxicological information on ingredients.

##### trans-1,2-DICHLOROETHYLENE

**Other health effects** There is no evidence that the product can cause cancer.

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

##### 1,1,1,2,2,3,4,5,5,5-decafluoropentane

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### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE dermal (mg/kg) 5,000.0

### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 114.0

Species Rat

ATE inhalation (vapours mg/l) 114.0

### Skin corrosion/irritation

Animal data Not irritating. Rabbit

Human skin model test Data lacking.

Extreme pH Not applicable. Not corrosive to skin.

### Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

### Respiratory sensitization

Respiratory sensitization Data lacking.

### Skin sensitization

Skin sensitization Not sensitizing. - Guinea pig: Not sensitizing.

### Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

### Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

IARC carcinogenicity Not listed.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

### Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.



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<b>Skin Contact</b>	Skin irritation should not occur when used as recommended. May cause defatting of the skin but is not an irritant.
<b>Eye contact</b>	May cause eye irritation.
<b>Acute and chronic health hazards</b>	There is no evidence that the product can cause cancer.

**METHANOL****Acute toxicity - oral**

ATE oral (mg/kg) 100.0

**Acute toxicity - dermal**

ATE dermal (mg/kg) 300.0

**Acute toxicity - inhalation**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 87.5

ATE inhalation (vapours mg/l) 87.5

**12. Ecological Information**

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Ecological information on ingredients.****trans-1,2-DICHLOROETHYLENE**

**Ecotoxicity** Low acute toxicity to aquatic organisms.

**1,1,1,2,2,3,4,5,5,5-decafluoropentane**

**Ecotoxicity** It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

**Ecological information on ingredients.****trans-1,2-DICHLOROETHYLENE****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1350 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 220 mg/l, Daphnia magna

**1,1,1,2,2,3,4,5,5,5-decafluoropentane****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 13.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 11.7 mg/l, Daphnia magna

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**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: >120 mg/l, Algae

**METHANOL****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >10000 mg/l, Daphnia magna

**Persistence and degradability**

**Persistence and degradability** No data available.

**Bioaccumulative potential**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

**Ecological information on ingredients.****trans-1,2-DICHLOROETHYLENE**

**Bio-Accumulative Potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**1,1,1,2,2,3,4,5,5,5-decafluoropentane**

**Bio-Accumulative Potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**Partition coefficient** Pow: 2.7

**METHANOL**

**Partition coefficient** : -0.77

**Mobility in soil**

**Mobility** No data available.

**Ecological information on ingredients.****trans-1,2-DICHLOROETHYLENE**

**Mobility** The product has poor water-solubility.

**Other adverse effects**

**Other adverse effects** The product contains a substance or substances that will contribute to global warming (greenhouse effect).

**13. Disposal considerations****Waste treatment methods**

**General information** Refer to manufacturer/supplier for information on recovery/recycling. Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible.

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### 14. Transport information

**General** Not regulated. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

**UN proper shipping name**

Not applicable.

**Transport hazard class(es)**

Not applicable.

**Transport labels**

No transport warning sign required.

**Packing group**

Not applicable.

**Environmental hazards**

**Environmentally Hazardous Substance**

No.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable. No information required.

### 15. Regulatory information

**US Federal Regulations**

**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

Not listed.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

*trans-1,2-DICHLOROETHYLENE*

Final CERCLA RQ: 1000(454) pounds (Kilograms)

*METHANOL*

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

Not listed.

**SARA 313 Emission Reporting**

*METHANOL*

1.0 %

**CAA Accidental Release Prevention**

Not listed.

**OSHA Highly Hazardous Chemicals**

Not listed.

**US State Regulations**

## Vertrel™ SFR Specialty Fluid, BULK

### California Proposition 65 Carcinogens and Reproductive Toxins

METHANOL

Known to the State of California to cause developmental and reproductive toxicity.

### California Air Toxics "Hot Spots" (A-I)

METHANOL

Present.

### California Air Toxics "Hot Spots" (A-II)

Not listed.

### California Directors List of Hazardous Substances

*trans*-1,2-DICHLOROETHYLENE

Present.

METHANOL

Present.

### Massachusetts "Right To Know" List

*trans*-1,2-DICHLOROETHYLENE

Present.

METHANOL

Present.

### Rhode Island "Right To Know" List

METHANOL

Present.

### Minnesota "Right To Know" List

METHANOL

Present.

### New Jersey "Right To Know" List

METHANOL

Present.

### Pennsylvania "Right To Know" List

*trans*-1,2-DICHLOROETHYLENE

Present.

METHANOL

Present.

### Inventories

#### Canada - DSL/NDSL

Yes

*trans*-1,2-DICHLOROETHYLENE

DSL

HEPTAFLUOROCYCLOPENTANE

NDSL

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*1,1,1,2,2,3,4,5,5,5-decafluoropentane*

DSL

*METHANOL*

DSL

### US - TSCA

Present.

1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE (CAS# 138495-42-8) is controlled by TSCA Section 5, Significant New Use Rule

(SNUR; 40 CFR 721.5645) The approved uses are: precision and general cleaning, carrier fluid, displacement drying, printed circuit board cleaning, particulate removal and film cleaning, process medium, heat transfer fluid (dielectric and non-dielectric), and test fluid. Processors and users of this substance must also comply with the applicable general SNUR requirements set forth in 40 CFR 721 subpart A, including export notification requirements if applicable (40 CFR 721.20), and the applicable record keeping requirements set forth at 40 CFR 721.125.

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

This material contains one or more substances which are subject to a TSCA Section 5 Consent Order or Significant New Use Rule (SNUR). 1,1,2,2,3,3,4-Heptafluorocyclopentane (CAS# 15290-77-4).

### 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	5/1/2018
<b>Revision</b>	30
<b>Supersedes date</b>	9/29/2017
<b>SDS No.</b>	BULK - SFR
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H332 Harmful if inhaled. H370 Causes damage to organs .

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.