RICCA CHEMICAL COMPANY®

# Safety Data Sheet

Classified According to Canada Hazardous Product Regulations SOR/2015-17 (HPR 2022)

## SECTION 1: Identification

### 1.1. Product Identifier

**Trade Name or Designation** Verispec® Perfluorooctane sulfonic acid
Manufactured and Tested in an ISO 17025/ISO 17034 Accredited Facility

**Product Number** RV020006

**Other Identifying Product Numbers** RV020006-100CM

### 1.2. Recommended Use and Restrictions on Use

Calibration Standard

### 1.3. Details of the Supplier of the Safety Data Sheet

**Company** Ricca Chemical Company
**Address** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

### 1.4. Emergency Telephone Number (24 hours)

| | |
|---|---|
| CHEMTREC (USA) | 800-424-9300 |
| CHEMTREC (International) | 1+ 703-527-3887 |

### 1.5. Distributor Address

Ricca Chemical Company
412 West Fork Drive
Arlington, TX 76012 USA

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## SECTION 2: Hazard Identification

### 2.1. Classification of the Hazardous Product

| Hazard Class | Category | Hazard Statements | Precautionary Statements |
|---|---|---|---|
| Acute Toxicity - Oral | Category 4 | H302 | P264,P270,P301+P312,P330,P501 |
| Acute Toxicity - Inhalation (Dusts and Mists) | Category 4 | H332 | P261,P271,P304+P340,P312 |
| Carcinogenicity | Category 2 | H351 | P201,P202,P280,P308+P313,P405, P501 |
| Reproductive Toxicity | Category 1B | H360 | P201,P202,P280,P308+P313,P405, P501 |
| Reproductive Toxicity - Effects on or via lactation | Lactation Effects | H362 | P201,P202,P260,P263,P264,P270, P308+P313 |
| Specific Target Organ Toxicity - Repeated Exposure | Category 1 | H372 | P260,P264,P270,P314,P501 |
| Hazardous to the Aquatic Environment, Long-term (Chronic) | Chronic 2 | H411 | P273,P391,P501 |

### 2.2. GHS Label Elements

**Pictograms:**

**Signal Word:** **Danger**

**Hazard Statements:**

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

| Hazard Number | Hazard Statement |
|---|---|
| H302+H332 | Harmful if swallowed or if inhaled |
| H351 | Suspected of causing cancer |
| H360 | May damage fertility or the unborn child |
| H362 | May cause harm to breast-fed children |
| H372 | Causes damage to liver through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |

**Precautionary Statements:**

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

**Prevention**

| Precautionary Number | Precautionary Statement |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust. |
| P263 | Avoid contact during pregnancy and while nursing. |
| P264 | Wash hands, arms, and face thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection. |

**Response**

| Precautionary Number | Precautionary Statement |
|---|---|
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P308+P313 | If exposed or concerned: Get medical advice or attention. |
| P312 | Call a poison center or doctor if you feel unwell. |
| P330 | Rinse mouth. |
| P391 | Collect spillage. |

**Storage**

| Precautionary Number | Precautionary Statement |
|---|---|
| P405 | Store locked up. |

**Disposal**

| Precautionary Number | Precautionary Statement |
|---|---|
| P501 | Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations. |

## 2.3. Hazards not Otherwise Classified

No other hazards identified.

## 2.4. Ingredients of Unknown Acute Toxicity

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## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance

| Chemical Name (IUPAC) | Common Name and Synonyms | CAS Number | Weight% |
|---|---|---|---|
| 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonic acid | Perfluorooctanesulfonic acid; PFOS | 1763-23-1 | 100.00 |

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary First-Aid Measures

**Eye Contact:** No action required to be taken. If necessary, rinse eyes with water.

**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** No action required to be taken. If necessary, wash areas of contact with water.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Suspected of causing cancer

### 4.3. Immediate Medical Attention or Special Treatment Needed

Not expected to require special treatment.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not considered to be a fire or explosion hazard.

### 5.3. Special Protective Equipment and Precautions for Firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

**U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)**

No limits found.

**U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits**

No limits found.

**U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)**

No limits found.

**U.S. OSHA - Specifically Regulated Chemicals**

No limits found.

**ACGIH - Threshold Limit Values - Ceilings (TLV-C)**

No limits found.

**ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)**

No limits found.

**ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)**

No limits found.

### 8.2. Engineering Controls

Use only outdoors or in a well-ventilated area.

### 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Wear protective gloves and eye protection.

**Skin Protection:** Wear protective gloves and eye protection.

**Eye Protection:** Wear protective gloves and eye protection.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Physical and Chemical Properties

| | |
|---|---|
| **Physical State:** | Solid |
| **Color:** | Not determined. |
| **Odor:** | Characteristic |
| **Odor Threshold:** | Data not available. |
| **Melting/Freezing Point:** | 90 °C |
| **Boiling Point/Range:** | 260 °C |
| **Flammability:** | Data not available. |
| **Flammability/Explosive Limits:** | Data not available. |
| **Flash Point:** | 11 °C |
| **Auto-Ignition Temperature:** | Data not available. |
| **Decomposition Temperature:** | Data not available. |
| **pH:** | Data not available. |
| **Kinematic Viscosity:** | Data not available. |
| **Solubility:** | Insoluble. |
| **Vapor Pressure:** | Data not available. |
| **Evaporation Rate:** | Data not available. |
| **Relative Density:** | 1.25 |
| **Relative Vapor Density:** | Data not available. |
| **Particle Characteristics:** | Data not available. |
| **Partition Coefficient n-octanol/water, log** | Data not available. |

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Protect from physical damage.

### 10.4. Hazardous Decomposition Products

None identified.

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## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:**

Oral acute toxicity estimate (ATE): 500 mg/kg(calculated)

| Chemical Name | CAS Number | Toxicity |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Oral LD50 Acute Toxicity Estimate 500 mg/kg (ECHA) |

**Acute Toxicity - Dermal Exposure:**

No information found.

**Acute Toxicity - Inhalation Exposure:**

Inhalation acute toxicity estimate (ATE, dust or mist): 1.5000 mg/L, 4 h(calculated)

| Chemical Name | CAS Number | Toxicity |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Inhalation LC50 Acute Toxicity Estimate 1.5 mg/L 4 h (Source: ECHA) |

### 11.2 Carcinogenicity:

**International Agency for Research on Cancer (IARC)**

| Chemical Name | CAS Number | Classification |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Group 2B (Possibly Carcinogenic to Humans) - Monograph 135 [in preparation] |

**National Toxicology Program (NTP)**

| Chemical Name | CAS Number | Classification |
|---|---|---|
| | No data found. | |

**U.S. OSHA specifically regulated carcinogens**

| Chemical Name | CAS Number | Classification |
|---|---|---|
| | No data found. | |

### 11.3 Additional Toxicology Information:

Harmful if swallowed or if inhaled. Suspected of causing cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to liver through prolonged or repeated exposure.

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## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name | CAS Number | Species | Exposure | Toxicity |
|---|---|---|---|---|
| | No data found. | None | None | |

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.

## SECTION 14: Transportation Information

### 14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

**Sizes:** 100 mg

**UN Number:** UN3261

**Proper Shipping Name:** Corrosive solid, acidic, organic, n.o.s. (Perfluorooctanesulfonic acid)

**Hazard Class:** 8

**Packing Group:** II

**Hazard Label(s):**

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### 14.2 Transportation by Air - International Air Transport Association (IATA)

**Sizes:** 100 mg

**UN Number:** UN3261

**Proper Shipping Name:** Corrosive solid, acidic, organic, n.o.s. (Perfluorooctanesulfonic acid)

**Hazard Class:** 8

**Packing Group:** II

**Hazard Label(s):**

### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:**

**UN Number:**

Not regulated according to TDG regulations.

**Proper Shipping Name:**

**Hazard Class:**

**Packing Group:**

**Hazard Label(s):**

## SECTION 15: Regulatory Information

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### 15.01. Occupational Safety and Health Administration (OSHA) Hazards

| Chemical Name | CAS Number | Regulatory Information |
|---|---|---|
| | | No data found. |

### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name | CAS Number | RQ |
|---|---|---|
| | | No data found. |

### 15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

| Chemical Name | CAS Number | Regulatory Information |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | 1 lb final RQ; 0.454 kg final RQ |

### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name | CAS Number | List | Regulatory Information |
|---|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Emission Reporting | not eligible for the de minimis exemption |
| Perfluorooctanesulfonic acid | 1763-23-1 | Chemicals of Special Concern | 100 lb RT |

### 15.05. Massachusetts Right-to-Know Substance List

| Chemical Name | CAS Number | Regulatory Information |
|---|---|---|
| | | No data found. |

### 15.06. Pennsylvania Right-to-Know Hazardous Substances

| Chemical Name | CAS Number | Regulatory Information |
|---|---|---|
| | | No data found. |

### 15.07. New Jersey Worker and Community Right-to-Know Components

| Chemical Name | CAS Number | Regulatory Information |
|---|---|---|
| | | No data found. |

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### 15.08. California Proposition 65

| Chemical Name | CAS Number | Regulatory Information |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | carcinogen, 12/24/2021 |
| Perfluorooctanesulfonic acid | 1763-23-1 | developmental toxicity, 11/10/2017 |

### 15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

| Chemical Name | CAS Number | List |
|---|---|---|
| | | No data found. |

### 15.10. United States of America Toxic Substances Control Act (TSCA) List

| Chemical Name | CAS Number | Status |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Present [S] (ACTIVE) |

### 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

| Chemical Name | CAS Number | List | Number |
|---|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | EINECS | 217-179-8 |

### 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name | CAS Number | Status |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Present [30837] |

### 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name | CAS Number | List | Status |
|---|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | Annex 2 | 2001-3-1700 (2001-3-1700) |

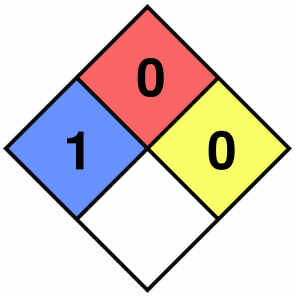
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name | CAS Number | MITI No. |
|---|---|---|
| Perfluorooctanesulfonic acid | 1763-23-1 | (2)-1595 |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 1
**Flammability:** 0
**Reactivity** 0
**Special Hazard:**




### 16.2 Document Revision

**Last Revision Date:**
2026-05-05

## DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.