

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2121393

| Issue date: 11.11.2015 | Revision date: 18.12.2023 | Version: 1.1 |  |
|------------------------|---------------------------|--------------|--|
|                        |                           |              |  |

| 1.1. Identification  |  |  |   |
|--|--|--|---|
| Product form<br>Substance name<br>CAS-No.<br>Product code<br>Formula<br>Synonyms<br>Other means of identification  | : 65294-16-<br>: 2121-3-93<br>: C12HF230<br>: 2,3,3,3-Te | 2,5,8-trimethyl-3,<br>8<br>D5<br>trafluoro-2-{1,1,2<br>ppropoxy)propox | 6,9-trioxadodecanoic) acid<br>,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-<br>y]propoxy}propanoic acid; HFPO tetramer acid |
| 1.2. Recommended use and restrictions o  | n use  |  |   |
| Use of the substance/mixture   |  | r chemicals<br>re of substances<br>esearch and dev                     |   |
| 1.3. Supplier  |  |  |   |
| SynQuest Laboratories, Inc. Inc.<br>P.O. Box 309<br>Alachua, FL, Alachua, 32615<br>United States of America<br>T (386) 462-0788 - F (386) 462-7097<br>info@synquestlabs.com - www.synquestlabs.com<br><b>1.4. Emergency telephone number</b>         |  |  |   |
| Emergency number   | : (844) 523-   | 4086 (3E Compa   | any - Account 10069)  |
| SECTION 2: Hazard(s) identification  |  |  |   |
| 2.1. Classification of the substance or mix  | cture  |  |   |
| GHS US classification<br>Skin corrosion/irritation Category 1B<br>Serious eye damage/eye irritation Category 1<br>Specific target organ toxicity – Single exposure, Ca<br>Respiratory tract irritation<br>Full text of H statements : see section 16 | ategory 3,   | H314<br>H318<br>H335   | Causes severe skin burns and eye damage<br>Causes serious eye damage<br>May cause respiratory irritation                                    |
| 2.2. GHS Label elements, including preca   | utionary state   | ments  |   |
|  |  |  |   |

Signal word (GHS US) Hazard statements (GHS US)

: Danger : H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation

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| Precautionary statements (GHS US) | <ul> <li>P260 - Do not breathe fumes, mist, spray, vapors.</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a POISON CENTER or doctor/ physician</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 - Store locked up.</li> </ul> |
|-----------------------------------|---|
|                                   | P405 - Store locked up.<br>P501 - Dispose of contents/container to an approved waste disposal plant   |

## 2.3. Other hazards which do not result in classification

### No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

# **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Substance type

: Mono-constituent

| Name   | Product identifier  | %     | GHS US classification                                      |
|--|---------------------|-------|--|
| Perfluoro(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid<br>(Main constituent) | CAS-No.: 65294-16-8 | ≤ 100 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335 |

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

| SECTION 4: First-aid measures          |   |
|--|---|
| 4.1. Description of first aid measures |   |
| First-aid measures general             | : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.          |
| First-aid measures after inhalation    | : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.                             |
| First-aid measures after skin contact  | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.   |
| First-aid measures after eye contact   | : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. |
| First-aid measures after ingestion     | : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.                                |

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| 4.2. Most important symptoms and effects (            | acute and delayed)   |
|---|--|
| Symptoms/effects<br>Symptoms/effects after inhalation | <ul> <li>The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.</li> <li>Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough,</li> </ul> |
|   | shortness of breath, headache, nausea.   |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

| SECTION 5: Fire-fighting measu                              | res   |
|---|---|
| 5.1. Suitable (and unsuitable) exting                       | uishing media   |
| Suitable extinguishing media                                | : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.  |
| 5.2. Specific hazards arising from the                      | ne chemical   |
| Fire hazard<br>Explosion hazard                             | <ul> <li>Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.</li> <li>Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.</li> </ul>   |
| 5.3. Special protective equipment an                        | nd precautions for fire-fighters  |
| Firefighting instructions<br>Protection during firefighting | <ul> <li>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul> |

| SECTION 6: Accidental release mea | sures |
|-----------------------------------|-------|

6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### **6.2. Environmental precautions**

This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Notify authorities if product enters sewers or public waters. Contain any spills with dikes or absorbents to prevent migration and entry into drains, sewers, waterways, or soil. Do not use where release to drains (sewer) and/or surface water cannot be prevented.

| 6.3. Methods and material for contain | ment and cleaning up   |
|---------------------------------------|--|
| For containment                       | : Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into drains, sewers, waterways, or soil. Do not use where release to drains (sewer) and/or surface water cannot be prevented.                     |
| Methods for cleaning up               | : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-<br>proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into<br>appropriate container for disposal. Ventilate area. |
| Other information                     | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".   |
| 6.4. Reference to other sections      |  |

#### No additional information available

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| SECTION 7: Handling and storage                |   |
|--|---|
| 7.1. Precautions for safe handling             |   |
| , , , , , , , , , , , , , , , , , , ,          | Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.<br>Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage, including an | y incompatibilities   |
| Storage conditions :                           | Comply with applicable regulations.<br>Keep container closed when not in use.<br>Refer to Section 10 on Incompatible Materials.<br>Store in dry, cool, well-ventilated area.  |

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

| Borfluoro/2 5 9 tr | imothyl 2 6 0 triov  | adadaaanaia) a | aid (65204 46 9) |
|--------------------|----------------------|----------------|------------------|
| remuoro(2,5,6-u    | imethyl-3,6,9-trioxa | auouecanoic) a | CIU (05294-10-0) |

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

# 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

protective gloves. 29 CFR 1910.138: Hand Protection

#### Eye protection:

Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection

#### Personal protective equipment symbol(s):



#### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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| 9.1. Information on basic physical and          | chemical properties         |
|---|-----------------------------|
| Physical state                                  | : Liquid                    |
| Color   | : No data available         |
| Odor  | : No data available         |
| Odor threshold                                  | : No data available         |
| рН  | : No data available         |
| Melting point                                   | : No data available         |
| Freezing point                                  | : No data available         |
| Boiling point                                   | : 75 – 77 °C (@ 0.01 mm Hg) |
| Flash point                                     | : No data available         |
| Relative evaporation rate (butyl acetate=1)     | : No data available         |
| Flammability (solid, gas)                       | : No data available         |
| Vapor pressure                                  | : No data available         |
| Relative vapor density at 20 °C                 | : No data available         |
| Relative density                                | : No data available         |
| Density   | : 1,8 g/ml (@ 20 °C)        |
| Molecular mass                                  | : 662,1 g/mol               |
| Solubility                                      | : No data available         |
| Partition coefficient n-octanol/water (Log Pow) | : No data available         |
| Auto-ignition temperature                       | : No data available         |
| Decomposition temperature                       | : No data available         |
| Viscosity, kinematic                            | : No data available         |
| Viscosity, dynamic                              | : No data available         |
| Explosion limits                                | : No data available         |
| Explosive properties                            | : No data available         |
| Oxidizing properties                            | : No data available         |

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

**10.2. Chemical stability** 

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

**10.4. Conditions to avoid** 

No additional information available

**10.5. Incompatible materials** 

Bases. Oxidizing agents. Reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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| SECTION 11: Toxicological inform       | nation  |
|--|---|
|  |   |
| 11.1. Information on toxicological eff | ects  |
| Acute toxicity (oral)                  | : Not classified  |
| Acute toxicity (dermal)                | : Not classified  |
| Acute toxicity (inhalation)            | : Not classified  |
| Skin corrosion/irritation              | : Causes severe skin burns.   |
| Serious eye damage/irritation          | : Causes serious eye damage.  |
| Respiratory or skin sensitization      | : Not classified  |
| Germ cell mutagenicity                 | : Not classified  |
| Carcinogenicity                        | : Not classified  |
| Reproductive toxicity                  | : Not classified  |
| STOT-single exposure                   | : May cause respiratory irritation.   |
| STOT-repeated exposure                 | : Not classified  |
| Aspiration hazard                      | : Not classified  |
| Viscosity, kinematic                   | : No data available   |
| Symptoms/effects                       | : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.                  |
| Symptoms/effects after inhalation      | : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. |

# **SECTION 12: Ecological information**

## 12.1. Toxicity

No additional information available

| 12.2. Persistence and degradability                                 |   |  |
|---|---|--|
| Perfluoro(2,5,8-trimethyl-3,6,9-trioxadodec                         | anoic) acid (65294-16-8)  |  |
| Persistence and degradability                                       | Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.   |  |
| 12.3. Bioaccumulative potential                                     |   |  |
| Perfluoro(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (65294-16-8) |   |  |
| Bioaccumulative potential   | Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established. |  |
| 12.4. Mobility in soil  |   |  |
| No additional information available                                 |   |  |

**12.5. Other adverse effects** 

No additional information available

| SECTION 13: Disposal considerations        |   |  |
|--|---|--|
| 13.1. Disposal methods                     |   |  |
| Waste treatment methods                    | : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.   |  |
| Sewage disposal recommendations            | : See the EPA's Interim Guidance on PFAS Destruction and Disposal.                            |  |
| Product/Packaging disposal recommendations | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |  |

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| Additional information    | : Recycle the material as far as possible.  |
|---------------------------|---|
| Ecology - waste materials | : This material is considered to be a "Forever chemical". Prevent any possible release to the   |
|                           | environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer |
|                           | systems, or emergency response.   |

| SECTION 14: Transport information  |   |
|--|---|
| 14.1. UN number  |   |
| DOT NA No<br>UN-No. (TDG)<br>UN-No. (IMDG)<br>UN-No. (IATA)  | : UN3265<br>: Not applicable<br>: 3265<br>: 3265  |
| 14.2. UN proper shipping name  |   |
| Proper Shipping Name (DOT)<br>Proper Shipping Name (TDG)<br>Proper Shipping Name (IMDG)<br>Proper Shipping Name (IATA) | <ul> <li>Corrosive liquid, acidic, organic, n.o.s.</li> <li>Not applicable</li> <li>CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.</li> <li>Corrosive liquid, acidic, organic, n.o.s.</li> </ul> |
| 14.3. Transport hazard class(es)   |   |
| DOT<br>Transport hazard class(es) (DOT)<br>Hazard labels (DOT)   | : 8<br>: 8<br>CORROSIVE   |
| TDG<br>Transport hazard class(es) (TDG)  | : Not applicable  |
| IMDG<br>Transport hazard class(es) (IMDG)<br>Hazard labels (IMDG)  | : 8<br>: 8  |
| IATA<br>Transport hazard class(es) (IATA)<br>Hazard labels (IATA)  | : 8<br>: 8  |
| 14.4. Packing group  |   |
| Packing group (DOT)<br>Packing group (TDG)<br>Packing group (IMDG)<br>Packing group (IATA)                             | : III<br>: Not applicable<br>: III<br>: III   |

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| A4.6. Special proclutions for user         DOT         DOT Special Provisions (49 CFR 172.102)         : 386 - Notwithstanding the provisions of §177.334(i) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetled explosive matchel is likely. Simplenets must be made by privations are excepted from the requirements of \$173.60(b)(i) of this subchapter.         : 186 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31H22, 31HR2, 3  | 14.5. Environmental hazards  |  |
|---|--|--|
| DOT         : UN3265           DOT Special Provisions (49 CFR 172.102)         : 386 - Notwithstanding the provisions of §177.334(i) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetter clusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments must be made by privations are excepted from the requirements of \$177.304(i)           Status         : 386 - Notwithstanding the provisions of §177.334(i) of this subchapter.           ISI - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2). Composite (31H21 and 31H22, 31HR2,   | Other information  | : No supplementary information available.  |
| UN-No.(DOT)       : UN32865         DOT Special Provisions (49 CFR 172.102)       : 396 - Notwithstanding the provisions of §177.834(I) of this subchapter. cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private. [lasad or contract carrier vehicles use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.80(b)(4) of this subchapter.         IB3 - Authorized IBC:: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (13H2 and 31H2, 31HB2, 31HB2                                     | 14.6. Special precautions for user   |  |
| DOT Special Provisions (49 CFR 172.102)       : 386 - Notwithstanding the provisions of \$177.84(1) of this subclayter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, lessed or contract carry evhices under exclusive use of the offeror. Cargo heaters must be made by private, lessed or contract carry evhices under exclusive use of the offeror. Cargo heaters must be made by private, lessed or contract carry evhices under exclusive use of the offeror. Cargo heaters must be made by private, lessed or contract carry evhices under exclusive use of this subchapter.         Bis - Authorized IBCs: Metal (31A, 31B and 31N); Rigd plastics (31H1 and 31H2); Composite (31H21 and 31H82, 31H84, 31H82, 31H8 |  |  |
| DOT Packaging Exceptions (49 CFR 173.xxx):154DOT Packaging Non Bulk (49 CFR 173.xxx):203DOT Packaging Bulk (49 CFR 173.xxx):241DOT Quantity Limitations Passenger aircrat/trail (49:5LCFR 173.27)::DOT Quantity Limitations Cargo aircraft only (49):60 LCFR 175.75):::DOT Vessel Stowage Location:A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.DOT Vessel Stowage Other:40 - Stow "clear of living quarters"TDG<br>No data available:223, 274ILmited quantities (IMDG):211Packing instructions (IMDG):122, 274Limited quantities (IMDG):11Packing instructions (IMDG):1001, LP01IBC packing instructions (IMDG):11Packing instructions (IMDG):T7Tank special provisions (IMDG):S-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULEEmS-No. (Fire):F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULEEmS-No. (Spillage):S - S-B SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCESStowage category (IMDG):E1PCA Excepted quantities (IATA):PCA Excepted quantities (IATA):PCA Limited quantities (I   | UN-No.(DOT)<br>DOT Special Provisions (49 CFR 172.102)   | <ul> <li>386 - Notwithstanding the provisions of §177.834(l) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, leased or contract carrier vehicles under exclusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.60(b)(4) of this subchapter.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul> |
| CFR 175.75)       DOT Vessel Stowage Location       : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.         DOT Vessel Stowage Other       : 40 - Stow "clear of living quarters"         TDG       No data available         IMDG       :         Excepted quantities (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : E1         Packing instructions (IMDG)       : BEC03         Tank special provisions (IMDG)       : IBC03         Tank special provisions (IMDG)       : TP1, TP28         EmS-No. (Fire)       : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE         EmS-No. (Spillage)       : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES         Stowage category (IMDG)       : A         IATA       PCA Excepted quantities (IATA)         PCA Limited quantities (IATA)       : E1         PCA instructions (IATA)       : S52   | CFR 173.27)  | : 154<br>: 203<br>: 241<br>: 5 L   |
| passenger vessel.         DOT Vessel Stowage Other       : 40 - Stow "clear of living quarters"         TDG         No data available         IMDG         Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : E1         Packing instructions (IMDG)       : BC03         Tank instructions (IMDG)       : T7         Tank special provisions (IMDG)       : TP1, TP28         EmS-No. (Fire)       : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE         EmS-No. (Spillage)       : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES         Stowage category (IMDG)       : A         IATA       PCA Limited quantities (IATA)         PCA Limited quantities (IATA)       : Keat         PCA packing instructions (IATA)       : B1  | CFR 175.75)  |  |
| TDG         No data available         IMDG         Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : 5 L         Packing instructions (IMDG)       : E1         Packing instructions (IMDG)       : BC03         Tank instructions (IMDG)       : T7         Tank special provisions (IMDG)       : TP1, TP28         EmS-No. (Fire)       : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE         EmS-No. (Spillage)       : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES         Stowage category (IMDG)       : A         IATA       PCA Limited quantities (IATA)       : E1         PCA Limited quantities (IATA)       : Y841         PCA acking instructions (IATA)       : 1L         PCA packing instructions (IATA)       : 1452  | DOT Vessel Stowage Location  |  |
| No data available         IMDC         Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : E1         Packing instructions (IMDG)       : BE003         Tank instructions (IMDG)       : T7         Tank special provisions (IMDG)       : TP1, TP28         EmS-No. (Fire)       : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE         EmS-No. (Spillage)       : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES         Stowage category (IMDG)       : A         IATA       PCA Excepted quantities (IATA)       : E1         PCA Limited quantities (IATA)       : Y841         PCA limited quantity max net quantity (IATA)       : 1L         PCA packing instructions (IATA)       : 852   | DOT Vessel Stowage Other   | : 40 - Stow "clear of living quarters"   |
| Special provision (IMDG): 223, 274Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1Packing instructions (IMDG): P001, LP01IBC packing instructions (IMDG): IBC03Tank instructions (IMDG): T7Tank special provisions (IMDG): TP1, TP28EmS-No. (Fire): F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULEEmS-No. (Spillage): S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCESStowage category (IMDG): AIATAIAAPCA Excepted quantities (IATA): E1PCA Limited quantities (IATA): Y841PCA limited quantity max net quantity (IATA): 1LPCA packing instructions (IATA): 852  | TDG<br>No data available   |  |
|   | IMDG<br>Special provision (IMDG)<br>Limited quantities (IMDG)<br>Excepted quantities (IMDG)<br>Packing instructions (IMDG)<br>IBC packing instructions (IMDG)<br>Tank instructions (IMDG)<br>Tank special provisions (IMDG)<br>EmS-No. (Fire)<br>EmS-No. (Spillage)<br>Stowage category (IMDG)<br>IATA<br>PCA Excepted quantities (IATA)<br>PCA Limited quantities (IATA)<br>PCA limited quantity max net quantity (IATA)<br>PCA packing instructions (IATA) | <ul> <li>: 5L</li> <li>: E1</li> <li>: P001, LP01</li> <li>: IBC03</li> <li>: T7</li> <li>: TP1, TP28</li> <li>: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE</li> <li>: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES</li> <li>: A</li> </ul>  |
|   | PCA max net quantity (IATA)  | : 5L   |

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| CAO packing instructions (IATA) | : | 856      |
|---------------------------------|---|----------|
| CAO max net quantity (IATA)     | : | 60L      |
| Special provision (IATA)        | : | A3, A803 |
| ERG code (IATA)                 | : | 8L       |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### Not applicable

# **SECTION 15: Regulatory information**

#### **15.1. US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

100%

| Perfluoro(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid | CAS-No. 65294-16-8 |
|--|--------------------|
|--|--------------------|

### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 18.12.2023

| Full text of H-phrases  |   |   |  |
|-------------------------|---|---|--|
| H314                    | Causes severe skin burns and eye damage |   |  |
| H318                    | Causes serious eye damage               | Causes serious eye damage   |  |
| H335                    | May cause respiratory irritation        |   |  |
| NFPA health haz         | ard :                                   | 3 - Materials that, under emergency conditions, can cause serious or permanent injury.  |  |
| NFPA fire hazard        | 1 :                                     | : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. |  |
| NFPA reactivity         | :                                       | : 0 - Material that in themselves are normally stable, even under fire conditions.  |  |
| Hazard Rating<br>Health | :                                       | : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given   |  |

# Safety Data Sheet

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| Flammability | : 0 Minimal Hazard - Materials that will not burn   |
|--------------|---|
| Physical     | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT |
|              | react with water, polymerize, decompose, condense, or self-react. Non-Explosives.                 |

Safety Data Sheet (SDS), USA