

Safety Data Sheet 6683306 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/12/2016 Version: 1.0

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|--|--|
| SECTION 1: Identification  |  |
| Product form   | : Substance  |
| Substance name   | : 11-Pentafluorophenoxyundecyltrimethoxysilane   |
| CAS No   | : 944721-47-5  |
| Product code   | : 6683-3-06  |
| Formula  | : C20H31F5O4Si   |
| Synonyms   | : Trimethoxy[11-(2,3,4,5,6-pentafluorophenoxy)undecyl]silane   |
|  | substance or mixture and uses advised against  |
| Use of the substance/mixture   | : Laboratory chemicals<br>Manufacture of substances<br>Scientific research and development   |
| 1.3. Details of the supplier of the safe   | · · · · · · · · · · · · · · · · · · ·  |
| SynQuest Laboratories, Inc.<br>P.O. Box 309<br>Alachua, FL 32615 - United States of Americ<br>T (386) 462-0788 - F (386) 462-7097<br>info@synquestlabs.com - www.synquestlabs  | ca   |
| 1.4. Emergency telephone number  |  |
| Emergency number   | : (844) 523-4086 (3E Company - Account 10069)  |
| SECTION 2: Hazard(s) identificati  | on   |
| 2.1. Classification of the substance of  |  |
| Classification (GHS-US)  |  |
| Full text of H-phrases: see section 16         2.2.       Label elements   |  |
| GHS-US labeling<br>Hazard pictograms (GHS-US)  |  |
|  | GHS07  |
| Signal word (GHS-US)   | GHS07  |
| Signal word (GHS-US)<br>Hazard statements (GHS-US)   | GHS07<br>: Warning<br>: H315 - Causes skin irritation<br>H319 - Causes serious eye irritation<br>H335 - May cause respiratory irritation |

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| 2.3. Other hazards   |  |  |  |  |
|--|--|--|--|--|
| No additional information available 2.4. Unknown acute toxicity (GHS US) |  |  |  |  |
|  |  |  |  |  |
| on on ingradients  |  |  |  |  |
| on on ingredients  |  |  |  |  |
| · Mono-constituent   |  |  |  |  |
|  | 0/   | Classification (CHS US)  |  |  |
|  |  | Classification (GHS-US)<br>Skin Irrit. 2, H315   |  |  |
|  | <b>x</b> = 100   | Eye Irrit. 2A, H319  |  |  |
|  |  | STOT SE 3, H335  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | -  |  |  |  |
|  |  | hing. If not breathing, give artificial  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| : Do NOT induce vomiting. Never give a                                   | anything by mouth to   |  |  |  |
| cts both acute and delayed   |  |  |  |  |
|  | and effects are desci  | ibed in the labelling (see section   |  |  |
| 2.2) and/or in section 11.   |  |  |  |  |
| al attention and special treatment neede                                 | d  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| : Alcohol resistant foam. Carbon dioxid                                  | e. Dry powder. Water   | spray. Use extinguishing media   |  |  |
| appropriate for surrounding fire.  |  |  |  |  |
| ubstance or mixture  |  |  |  |  |
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|  |  |  |  |  |
|  | ouro odernista alm   | tilation. Do not broothe and from  |  |  |
| : Evacuate unnecessary personnel. En:<br>vapor or spray.                 | sure adequate air ven  | tiliation. Do not breathe gas, tumes,  |  |  |
| vapor or opray.  |  |  |  |  |
|  |  |  |  |  |
| : Only qualified personnel equipped wit                                  | h suitable protective e  | equipment may intervene.   |  |  |
|  | h suitable protective e  | equipment may intervene.   |  |  |
|  | ·  |  |  |  |
|  | <ul> <li>where possible). Move the affected person to fresh air and keep respiration. Get medical advice/attent</li> <li>Wash with plenty of soap and water. Get medical advice/attent</li> <li>Wash with plenty of soap and water. Get medical advice/attent</li> <li>Immediately flush eyes thoroughly with present and easy to do. Continue rins</li> <li>Do NOT induce vomiting. Never give mouth out with water. Get medical ad</li> <li>stop both acute and delayed</li> <li>The most important known symptoms 2.2) and/or in section 11.</li> <li>al attention and special treatment needed</li> <li>Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.</li> <li>ubstance or mixture</li> <li>Thermal decomposition generates: Ca</li> <li>Risk of explosion if heated under confict containers. May form flammable/explose</li> <li>In case of fire: Evacuate area. Fight fiis. Wear gas tight chemically protective of the second secon</li></ul> | On on ingredients         : Mono-constituent <ul> <li>(CAS No) 944721-47-5</li> <li>(CAS No) 94721-47-5</li> <l< td=""></l<></ul> |  |  |

# 11-Pentafluorophenoxyundecyltrimethoxysilane Safety Data Sheet

| Emergency procedures   | <ul> <li>Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground<br/>level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source o<br/>ignition.</li> </ul>   |
|--|---|
| 6.2. Environmental precautions   |   |
| Avoid release to the environment. Notify a   | uthorities if product enters sewers or public waters.   |
| 6.3. Methods and material for cont   | ainment and cleaning up   |
| For containment  | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.  |
| Methods for cleaning up  | : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into 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  |   |
| SECTION 7: Handling and stora  | ge  |
| 7.1. Precautions for safe handling   |   |
| 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.   |
| Hygiene measures   | : 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, in   | cluding any incompatibilities   |
| Technical measures   | : Comply with applicable regulations.   |
| Storage conditions   |   |
| Storage conditions   | : Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.   |
| ncompatible materials<br>Storage area<br>SECTION 8: Exposure controls/   | <ul><li>Refer to Section 10 on Incompatible Materials.</li><li>Store in dry, cool, well-ventilated area.</li></ul>  |
| Incompatible materials<br>Storage area<br>SECTION 8: Exposure controls/<br>8.1. Control parameters   | <ul><li>Refer to Section 10 on Incompatible Materials.</li><li>Store in dry, cool, well-ventilated area.</li></ul>  |
| No additional information available  | <ul><li>Refer to Section 10 on Incompatible Materials.</li><li>Store in dry, cool, well-ventilated area.</li></ul>  |
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| Incompatible materials<br>Storage area<br>SECTION 8: Exposure controls/<br>8.1. Control parameters<br>No additional information available<br>8.2. Exposure controls<br>Appropriate engineering controls<br>Hand protection<br>Eye protection   | Refer to Section 10 on Incompatible Materials.     Store in dry, cool, well-ventilated area.  personal protection      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.  |
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| Incompatible materials<br>Storage area<br>SECTION 8: Exposure controls/<br>8.1. Control parameters<br>No additional information available<br>8.2. Exposure controls<br>Appropriate engineering controls<br>Hand protection<br>Eye protection<br>Skin and body protection<br>Respiratory protection<br>Other information<br>SECTION 9: Physical and chemi<br>9.1. Information on basic physical   | <ul> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> personal protection <ul> <li>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.</li> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> <li>Wear suitable protective clothing.</li> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> <li>Safety shoes. 29 CFR 1910.136: Foot Protection.</li> </ul>   |
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| Incompatible materials<br>Storage area<br>SECTION 8: Exposure controls/<br>8.1. Control parameters<br>No additional information available<br>8.2. Exposure controls<br>Appropriate engineering controls<br>Hand protection<br>Eye protection<br>Skin and body protection<br>Respiratory protection<br>Other information<br>SECTION 9: Physical and chemi<br>9.1. Information on basic physical<br>Physical state<br>Color<br>Odor<br>Odor threshold<br>pH<br>Melting point                   | <ul> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> personal protection <ul> <li>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.</li> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> <li>Wear suitable protective clothing.</li> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> <li>Safety shoes. 29 CFR 1910.136: Foot Protection.</li> </ul> Ecal properties <ul> <li>and chemical properties</li> <li>Liquid</li> <li>No data available</li> </ul> |
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| Incompatible materials<br>Storage area<br>SECTION 8: Exposure controls/<br>8.1. Control parameters<br>No additional information available<br>8.2. Exposure controls<br>Appropriate engineering controls<br>Hand protection<br>Eye protection<br>Skin and body protection<br>Respiratory protection<br>Other information<br>SECTION 9: Physical and chemi<br>9.1. Information on basic physical<br>Physical state<br>Color<br>Odor<br>Odor threshold<br>pH<br>Melting point                   | <ul> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> personal protection <ul> <li>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.</li> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> <li>Wear suitable protective clothing.</li> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> <li>Safety shoes. 29 CFR 1910.136: Foot Protection.</li> </ul> Ecal properties <ul> <li>and chemical properties</li> <li>Liquid</li> <li>No data available</li> </ul> |

Relative evaporation rate (butyl acetate=1)

: No data available

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| Explosive properties            | : No data available |
|---------------------------------|---------------------|
| Oxidizing properties            | : No data available |
| Vapor pressure                  | : No data available |
| Relative density                | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Molecular mass                  | : 458.54 g/mol      |
| Solubility                      | : No data available |
| Log Pow                         | : No data available |
| Auto-ignition temperature       | : No data available |
| Decomposition temperature       | : No data available |
| Viscosity                       | : No data available |
| Viscosity, kinematic            | : No data available |
| Viscosity, dynamic              | : No data available |
|                                 |                     |

## 9.2. Other information

No additional information available

| SECT  | FION 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

Keep away from heat, sparks and flame. Moisture.

## 10.5. Incompatible materials

Strong oxidizing 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.

| SECTI    | SECTION 11: Toxicological information |                  |  |
|----------|---------------------------------------|------------------|--|
| 11.1.    | Information on toxicological effects  |                  |  |
|          |                                       |                  |  |
| Acute to | kicity                                | : Not classified |  |
| Skin oor | onion/irritation                      |                  |  |

| Skin corrosion/irritation                          | : Causes skin irritation.           |
|--|-------------------------------------|
| Serious eye damage/irritation                      | : Causes serious eye irritation.    |
| Respiratory or skin sensitization                  | : Not classified                    |
| Germ cell mutagenicity                             | : Not classified                    |
| Carcinogenicity                                    | : Not classified                    |
| Reproductive toxicity                              | : Not classified                    |
| Specific target organ toxicity (single exposure)   | : May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : Not classified                    |
| Aspiration hazard                                  | : Not classified                    |

| SECT    | ON 12: Ecological information |
|---------|-------------------------------|
| 12.1.   | Toxicity                      |
| No addi | ional information available   |
| 12.2.   | Persistence and degradability |
| No addi | ional information available   |

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| 12.3. Bioaccumulative potential         No additional information available         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects |         |                              | · · · · · · · · · · · · · · · · · · · |  |  |
|--|---------|------------------------------|---------------------------------------|--|--|
| 12.4.     Mobility in soil       No additional information available   | 12.3.   | Bioaccumulative potential    |                                       |  |  |
| No additional information available  | No addi | tional information available |                                       |  |  |
|  | 12.4.   | Mobility in soil             |                                       |  |  |
|  | No addi | tional information available |                                       |  |  |
|  | 10 5    |                              |                                       |  |  |
|  | No addi | tional information available |                                       |  |  |

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

## Waste treatment methods

Waste disposal recommendations Additional information

- : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Recycle the material as far as possible.
- **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

### TDG

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

| 11-Pentafluorophenoxyundecyltrimethoxysilane | CAS No 944721-47-5 | 100% |
|--|--------------------|------|
|--|--------------------|------|

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 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 and/or reproductive harm

## **SECTION 16: Other information**

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Full text of H-phrases:  |  |
|--------------------------|--|
| Eye Irrit. 2A            | Serious eye damage/eye irritation Category 2A  |
| Skin Irrit. 2            | Skin corrosion/irritation Category 2   |
| STOT SE 3                | Specific target organ toxicity (single exposure) Category 3  |
| H315                     | Causes skin irritation   |
| H319                     | Causes serious eye irritation  |
| H335                     | May cause respiratory irritation   |
| NFPA health hazard       | : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.  |
| NFPA fire hazard         | : 1 - Must be preheated before ignition can occur.   |
| NFPA reactivity          | : 0 - Normally stable, even under fire exposure conditions,<br>and are not reactive with water.  |
| HMIS III Rating          |  |
| Health                   | : 2 Moderate Hazard - Temporary or minor injury may occur  |
| Flammability             | <ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,<br/>solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul> |
| 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.            |
| SDS US (GHS HazCom 2012) |  |

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.