

## 2-Cyanoethyl N,N,N',N'tetraisopropylphosphorodiamidite Safety Data Sheet 8179102

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/11/2018 Version: 1.0

| SECTION 1: Identification  |  |        |
|--|--|--------|
| 1.1. Identification  |  |        |
| Product form   | : Substance  |        |
| Substance name   | 2-Cyanoethyl N,N,N',N'-tetraisopropylphosphorodiamidite  |        |
| CAS No   | : 102691-36-1  |        |
| Product code   | : 8179-1-02  |        |
| Formula  | : C15H32N3OP   |        |
| Synonyms   | : 3-((Bis(diisopropylamino)phosphanyl)oxy)propanenitrile   |        |
| Other means of identification  | : MFCD00012213   |        |
|  | ance or mixture and uses advised against   |        |
|  | : Laboratory chemicals   |        |
|  | Manufacture of substances<br>Scientific research and development   |        |
| 1.3. Details of the supplier of the safety d   | lata sheet   |        |
| SynQuest Laboratories, Inc.  |  |        |
| P.O. Box 309   |  |        |
| Alachua, FL 32615 - United States of America<br>T (386) 462-0788 - F (386) 462-7097<br>info@synquestlabs.com - www.synquestlabs.com  |  |        |
| 1.4. Emergency telephone number  | <u>.</u>   |        |
|  | : (844) 523-4086 (3E Company - Account 10069)  |        |
|  |  |        |
| SECTION 2: Hazard(s) identification  |  |        |
| 2.1. Classification of the substance or mi   | xture  |        |
| Classification (GHS-US)  |  |        |
| Flam. Lig. 3 H226 - Flammable liquid and va  |  |        |
| Skin Irrit. 2 H315 - Causes skin irritation  |  |        |
| Eye Irrit. 2A H319 - Causes serious eye irrita   | ation  |        |
|  |  |        |
|  | thma symptoms or breathing difficulties if inhaled   |        |
| Skin Sens. 1 H317 - May cause an allergic sl   | thma symptoms or breathing difficulties if inhaled   |        |
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| Skin Sens. 1 H317 - May cause an allergic sl   | thma symptoms or breathing difficulties if inhaled   |        |
| Skin Sens. 1 H317 - May cause an allergic sl<br>Full text of H-phrases: see section 16   | thma symptoms or breathing difficulties if inhaled   |        |
| Skin Sens. 1H317 - May cause an allergic shFull text of H-phrases: see section 162.2.Label elements  | thma symptoms or breathing difficulties if inhaled   |        |
| Skin Sens. 1       H317 - May cause an allergic sl         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling  | thma symptoms or breathing difficulties if inhaled   |        |
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| Skin Sens. 1       H317 - May cause an allergic sl         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling  | <ul> <li>thma symptoms or breathing difficulties if inhaled kin reaction</li> <li>: </li> </ul>  |        |
| Skin Sens. 1 H317 - May cause an allergic sk<br>Full text of H-phrases: see section 16<br>2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)   | <ul> <li>thma symptoms or breathing difficulties if inhaled kin reaction</li> <li>         Image: Constraint of the symptoms of the</li></ul>            |        |
| Skin Sens. 1 H317 - May cause an allergic sk<br>Full text of H-phrases: see section 16<br>2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)                               | <ul> <li>thma symptoms or breathing difficulties if inhaled kin reaction</li> <li>         Image: Constraints of the symptometry of the</li></ul>            |        |
| Skin Sens. 1 H317 - May cause an allergic sk<br>Full text of H-phrases: see section 16<br>2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)                               | <ul> <li>thma symptoms or breathing difficulties if inhaled kin reaction</li> <li>         Image: Constraints         Image: H226 - Flammable liquid and vapor     </li> </ul>   |        |
| Skin Sens. 1 H317 - May cause an allergic sk<br>Full text of H-phrases: see section 16<br>2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)                               | <ul> <li>thma symptoms or breathing difficulties if inhaled kin reaction</li> <li>         Image: Constraints of the symptometry of the</li></ul>            |        |
| Skin Sens. 1 H317 - May cause an allergic sk<br>Full text of H-phrases: see section 16<br>2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)                               | <ul> <li>thma symptoms or breathing difficulties if inhaled kin reaction</li> <li> i vertice </li> <li> i vertice </li> <li> i constant </li> </ul>  |        |
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|   | , <u> </u>  |  |   |
|---|---|--|---|
|   | P284 - In case of inadequate ventilation wear<br>P302+P352 - If on skin: Wash with plenty of sc<br>P303+P361+P353 - If on skin (or hair): Take of<br>skin with water/shower<br>P304+P340 - If inhaled: Remove person to fre<br>P305+P351+P338 - If in eyes: Rinse cautious<br>lenses, if present and easy to do. Continue rin<br>P321 - Specific treatment (see supplemental f<br>P332+P313 - If skin irritation occurs: Get med<br>P333+P313 - If skin irritation or rash occurs: Get<br>P342+P313 - If eye irritation persists: Get med<br>P342+P311 - If experiencing respiratory symp<br>P362+P364 - Take off contaminated clothing a<br>P363 - Wash contaminated clothing before ret<br>P370+P378 - In case of fire: Use dry sand, dry<br>P403+P235 - Store in a well-ventilated place.<br>P501 - Dispose of contents/container to an ap | oap and water<br>off immediately al<br>sh air and keep<br>ly with water for s<br>ising<br>irst aid instruction<br>ical advice/attent<br>Get medical advice<br>dical advice/attent<br>dical advice/attent<br>toms: Call a pois<br>and wash it befor<br>use<br>y chemical or alco<br>Keep cool | Il contaminated clothing. Rinse<br>comfortable for breathing<br>several minutes. Remove contact<br>ns on this label)<br>tion<br>ce/attention<br>tion<br>son center/doctor/<br>re reuse<br>ohol-resistant foam to extinguish |
| 2.3. Other hazards  |   |  |   |
| Other hazards not contributing to the : classification          | Risk of explosion if heated under confinement   |  |   |
| 2.4. Unknown acute toxicity (GHS US)                            |   |  |   |
| Not applicable  |   |  |   |
| SECTION 3: Composition/information                              | on ingredients  |  |   |
| 3.1. Substance  |   |  |   |
|   | Mono-constituent  |  |   |
|   |   |  |   |
| Name<br>2-Cyanoethyl N,N,N',N'-tetraisopropylphosphorodiamidite | Product identifier<br>(CAS No) 102691-36-1  | <b>%</b><br><= 100   | Classification (GHS-US)<br>Flam. Liq. 3, H226   |
| (Main constituent)  | (CAS NO) 102091-30-1  | L= 100   | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317   |
| Full text of H-phrases: see section 16                          |   | L I  |   |
| 3.2. Mixture  |   |  |   |
| 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 a where possible). Move the affected personnel  |  |   |
| First-aid measures after inhalation                             | Remove person to fresh air and keep comfortarespiration. Get medical advice/attention.  | able for breathing   | g. If not breathing, give artificial  |
|   | Wash with plenty of soap and water. Get med   |  |   |
|   | Immediately flush eyes thoroughly with water present and easy to do. Continue rinsing. Get  | medical advice/a   | attention.  |
| First-aid measures after ingestion :                            | Do NOT induce vomiting. Never give anything mouth out with water. Get medical advice/atte   |  | unconscious person. Rinse   |
| 4.2. Most important symptoms and effects,                       |   |  |   |
| Symptoms/injuries :   | The most important known symptoms and efference 2.2) and/or in section 11.  | ects are describe  | d in the labelling (see section   |
| 4.3. Indication of any immediate medical at                     | tention and special treatment needed  |  |   |
| Treat symptomatically.  |   |  |   |
| SECTION 5: Firefighting measures                                |   |  |   |
| 5.1. Extinguishing media  |   |  |   |
|   | Alcohol resistant foam. Carbon dioxide. Dry po<br>appropriate for surrounding fire.   | owder. Water spr   | ray. Use extinguishing media  |
| 5.2. Special hazards arising from the subst                     | ance or mixture   |  |   |
| Fire hazard :   | Thermal decomposition generates: Carbon ox  | ides. Nitrogen ox  | kides. Phosphorus oxides.   |
| Explosion hazard :  | Risk of explosion if heated under confinement containers. May form flammable/explosive vap  |  | y or fog for cooling exposed  |
| 22/14/2212  |   | 000 10 0170100   |   |

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| Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection"         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         General measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumivapor or spray.         6.1.1. For non-emergency personnel       Emergency procedures         Emergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition. | 5.3. Advice for firefighters       |  |
|---|------------------------------------|--|
| apparatus. For further information refer to section 8: "Exposure controls/personal protection"         SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures         General measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fuminator or spray.         6.1.1. For non-emergency personnel       Emergency procedures         Emergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.   | Firefighting instructions          | : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.  |
| General measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, functivapor or spray.         6.1.1. For non-emergency personnel       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | Protection during firefighting     | : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".                 |
| General measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, functivapor or spray.         6.1.1. For non-emergency personnel       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | SECTION 6: Accidental release      | e measures   |
| 6.1.1. For non-emergency personnel         Emergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders         Protective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | 6.1. Personal precautions, protect | tive equipment and emergency procedures  |
| Emergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | General measures                   | : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.  |
| 6.1.2. For emergency responders         Protective equipment         Emergency procedures         Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Cas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | 6.1.1. For non-emergency personn   | el   |
| Protective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         Emergency procedures       : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | Emergency procedures               | : Only qualified personnel equipped with suitable protective equipment may intervene.  |
| Emergency procedures       refer to section 8: "Exposure controls/personal protection".         Emergency procedures       Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below gro level. Consider the risk of potentially explosive atmospheres. Eliminate every possible sourcignition.   | 6.1.2. For emergency responders    |  |
| level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source ignition.  | Protective equipment               |  |
| 6.2. Environmental precautions  | Emergency procedures               | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source or ignition. |
|   | 6.2. Environmental precautions     |  |

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

| 6.3.     | Methods and material for containment and cleaning up |   |
|----------|--|---|
| For con  | tainment   | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.  |
| Method   | s for cleaning up                                    | Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use<br>explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel<br>spills into appropriate container for disposal. Ventilate area. |
| Other ir | formation  | : 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 storage             |   |  |
|---|---|--|
| 7.1. Precautions for safe handling          |   |  |
| Additional hazards when processed           | : Handle empty containers with care because residual vapors are flammable.  |  |
| 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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. |  |
| 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, including | g any incompatibilities   |  |
| Technical measures                          | : Comply with applicable regulations.   |  |
| Storage conditions                          | : Keep container closed when not in use. Keep away from ignition sources. Air sensitive.<br>Moisture sensitive. Keep contents under inert gas.  |  |
| Incompatible materials                      | : Refer to Section 10 on Incompatible Materials.  |  |
| Storage temperature                         | : 2 - 8 °C Use explosion proof refrigerator   |  |
| Heat-ignition                               | : Heat sensitive.   |  |
| Storage area                                | : Store in dry, well-ventilated area.   |  |

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

| 8.2. Exposure controls           |                                 |  |                   |
|----------------------------------|---------------------------------|--|-------------------|
| Appropriate engineering controls |                                 | work station. Emergency eye wash fountains a nediate vicinity of any potential exposure. | nd safety showers |
| Hand protection                  | : Protective gloves. 29 CFR 19  | 10.138: Hand Protection.   |                   |
| Eye protection                   | : Chemical goggles or safety gl | asses. Face shield. 29 CFR 1910.133: Eye and   | Face Protection.  |
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| Skin and body protection | : Wear suitable protective clothing.   |
|--------------------------|--|
| Respiratory protection   | : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory<br>Protection. |
| Other information        | : Safety shoes. 29 CFR 1910.136: Foot Protection.  |

### **SECTION 9: Physical and chemical properties**

| OF OTION 3. I Hysical and chemical          | properties             |
|---|------------------------|
| 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                               | : 100 °C (@ 0.5 mm Hg) |
| Flash point                                 | : 60 °C                |
| Relative evaporation rate (butyl acetate=1) | : No data available    |
| Flammability (solid, gas)                   | : No data available    |
| Explosion limits                            | : No data available    |
| 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    |
| Specific gravity / density                  | : 0.949 g/ml           |
| Molecular mass                              | : 301.4078 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                      |                        |
| Refractive index                            | : 1.47                 |

| SECTI     | ON 10: Stability and reactivity                           |
|-----------|---|
| 10.1.     | Reactivity  |
| No addit  | ional information available                               |
| 10.2.     | Chemical stability  |
| The proc  | duct is stable at normal handling and storage conditions. |
| 10.3.     | Possibility of hazardous reactions                        |
| Heating   | may cause an explosion.                                   |
| 10.4.     | Conditions to avoid                                       |
| Keep aw   | ay from heat, sparks and flame.                           |
| 10.5.     | Incompatible materials                                    |
| Air. Stro | ng acids. Strong bases. Strong oxidizing agents. Water.   |
| 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 information  |   |  |
| 11.1. Information on toxicological effects   | 3   |  |
|  | · Not classified  |  |
| Acute toxicity   | . Not classified  |  |
| Skin corrosion/irritation  | : Causes skin irritation.   |  |
| Serious eye damage/irritation  | : Causes serious eye irritation.  |  |
| Respiratory or skin sensitization  | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |  |
| Germ cell mutagenicity   | : Not classified  |  |
| Carcinogenicity  | : Not classified  |  |
| Reproductive toxicity  | : Not classified  |  |
| Specific target organ toxicity (single exposure)   | : Not classified  |  |
| Specific target organ toxicity (repeated exposure)   | : Not classified  |  |
| Aspiration hazard  | : Not classified  |  |
| SECTION 12: Ecological information   | h   |  |
| 12.1. Toxicity   |   |  |
| No additional information available  |   |  |
| 12.2. Persistence and degradability  |   |  |
| No additional information available  |   |  |
| 12.3. Bioaccumulative potential  |   |  |
| No additional information available  |   |  |
| 12.4. Mobility in soil   |   |  |
| No additional information available  |   |  |
| 12.5. Other adverse effects  |   |  |
| 12.3. Other duverse enects   |   |  |

No additional information available

| 13.1. Waste treatment methods   |   |  |     |
|---|---|--|-----|
| Waste treatment methods<br>Waste disposal recommendations<br>Additional information |   | cinerator equipped with an afterburner and a flue gater in accordance with licensed collector's sorting instance possible. |     |
| SECTION 14: Transport information   | ١   |  |     |
| Department of Transportation (DOT)  |   |  |     |
| In accordance with DOT  |   |  |     |
| Transport document description  | : UN1993 Flammable liquids,                                     | n.o.s., 3, III   |     |
| UN-No.(DOT)   | : UN1993  |  |     |
| Proper Shipping Name (DOT)  | : Flammable liquids, n.o.s.                                     |  |     |
| Transport hazard class(es) (DOT)  | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |  |     |
| Hazard labels (DOT)   | : 3 - Flammable liquid  |  |     |
| Packing group (DOT)   | : III - Minor Danger  |  |     |
| DOT Packaging Non Bulk (49 CFR 173.xxx)   | : 203   |  |     |
| DOT Packaging Bulk (49 CFR 173.xxx)   | : 242   |  |     |
| DOT Symbols   | : G - Identifies PSN requiring                                  | a technical name   |     |
| 09/11/2018  | EN (English US)   | SDS ID: 8179102  | 5/7 |

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| DOT Special Provisions (49 CFR 172.102)                             | <ul> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</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>T4 - 2.65 178.274(d)(2) Normal</li></ul> |
|---|--|
| DOT Packaging Exceptions (49 CFR 173.xxx)                           | : 150  |
| DOT Quantity Limitations Passenger aircraft/rail<br>(49 CFR 173.27) |  |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)        | : 220 L  |
| DOT Vessel Stowage Location   | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  |
| Other information   | : No supplementary information available.  |
| TDG   |  |
| No additional information available                                 |  |
| Transport by sea  |  |
| UN-No. (IMDG)   | : 1993   |
| Proper Shipping Name (IMDG)   | : FLAMMABLE LIQUID, N.O.S.   |
| Class (IMDG)  | : 3 - Flammable liquids  |
| Packing group (IMDG)  | : III - substances presenting low danger   |
| Air transport   |  |
| UN-No. (IATA)   | : 1993   |
| Proper Shipping Name (IATA)   | : Flammable liquid, n.o.s.   |
| Class (IATA)  | : 3 - Flammable Liquids  |
| Packing group (IATA)  | : III - Minor Danger   |
| SECTION 15: Regulatory information                                  |  |
| 15.1. US Federal regulations  |  |
|   | luded from listing, on the United States Environmental Protection Agency Toxic   |

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:

| 2-Cyanoethyl N,N,N',N'-tetraisopropylphosphorodiamidite | CAS No 102691-36-1 | 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

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| National regulations  |  |  |
|---|--|--|
| 2-Cyanoethyl N,N,N',N'-tetraisopropylphosphorodiamidite (102691-36-1) |  |  |
|   | Listed on NZIoC (New Zealand Inventory of Chemicals)     |  |
|   | Listed on the TCSI (Taiwan Chemical Substance Inventory) |  |

### 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**

### Full text of H-phrases:

NF

NF

NFPA reactivity

| At of 11 philases. |  |
|--------------------|--|
| Eye Irrit. 2A      | Serious eye damage/eye irritation Category 2A  |
| Flam. Liq. 3       | Flammable liquids Category 3   |
| Resp. Sens. 1      | Respiratory sensitisation Category 1   |
| Skin Irrit. 2      | Skin corrosion/irritation Category 2   |
| Skin Sens. 1       | Skin sensitization Category 1  |
| H226               | Flammable liquid and vapor   |
| H315               | Causes skin irritation   |
| H317               | May cause an allergic skin reaction  |
| H319               | Causes serious eye irritation  |
| H334               | May cause allergy or asthma symptoms or breathing difficulties if<br>inhaled   |
| health hazard      | 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. |
| fire hazard        | : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.   |

|                 | water.   |
|-----------------|--|
| HMIS III Rating |  |
| Health          | : 2 Moderate Hazard - Temporary or minor injury may occur  |
| Flammability    | <ul> <li>2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient<br/>temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F<br/>but below 200 F. (Classes II &amp; IIIA)</li> </ul> |
| Physical        | : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high<br>temperatures and pressures. Materials may react non-violently with water or undergo<br>hazardous polymerization in the absence of inhibitors.           |

: 3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with

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.