

Safety Data Sheet 41121X2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/09/2018 Version: 1.0

| SECTION 1: Identification   |  |
|---|--|
| 1.1. Identification   |  |
| Product form  | : Substance  |
| Substance name  | : N-Acetylneuraminic acid  |
| CAS No  | : 131-48-6   |
| Product code  | : 4112-1-X2  |
| Formula   | : C11H19NO9  |
| Synonyms  | : NANA; Sialic acid; Lactaminic acid; 5-Acetamido-3,5-dideoxy-D-glycero-D-galactononulosonic acid  |
| Other means of identification   | : MFCD23134617   |
| 1.2. Relevant identified uses of the subst  | ance 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 safety d  | ata sheet  |
| SynQuest Laboratories, Inc.<br>P.O. Box 309<br>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   | (0.11) 500 (000 (05 0  |
| Emergency number  | : (844) 523-4086 (3E Company - Account 10069)  |
| SECTION 2: Hazard(s) identification   |  |
| 2.1. Classification of the substance or mi  | xture  |
| Classification (GHS-US)<br>Eye Irrit. 2A H319 - Causes serious eye irritation   |  |
| Full text of H-phrases: see section 16  | DN   |
| 2.2. Label elements   | on   |
|   | r<br>GHS07   |
| 2.2. Label elements<br>GHS-US labeling  |  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)  | :<br>GHSO7<br>: Warning  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)  | :<br>CHS07   |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)<br>Hazard statements (GHS-US)  | <ul> <li>: Varning</li> <li>: H319 - Causes serious eye irritation</li> <li>: P264 - Wash skin thoroughly after handling<br/>P280 - Wear protective gloves/protective clothing/eye protection/face protection<br/>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact<br/>lenses, if present and easy to do. Continue rinsing</li> </ul>  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)<br>Hazard statements (GHS-US)<br>Precautionary statements (GHS-US)   | <ul> <li>: Varning</li> <li>: H319 - Causes serious eye irritation</li> <li>: P264 - Wash skin thoroughly after handling<br/>P280 - Wear protective gloves/protective clothing/eye protection/face protection<br/>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact<br/>lenses, if present and easy to do. Continue rinsing</li> </ul>  |
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| <ul> <li>2.2. Label elements</li> <li>GHS-US labeling</li> <li>Hazard pictograms (GHS-US)</li> <li>Signal word (GHS-US)</li> <li>Hazard statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>2.3. Other hazards</li> <li>No additional information available</li> <li>2.4. Unknown acute toxicity (GHS US)</li> </ul> | <ul> <li>: Warning</li> <li>: H319 - Causes serious eye irritation</li> <li>: P264 - Wash skin thoroughly after handling<br/>P280 - Wear protective gloves/protective clothing/eye protection/face protection<br/>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact<br/>lenses, if present and easy to do. Continue rinsing<br/>P337+P313 - If eye irritation persists: Get medical advice/attention</li> </ul> |
| <ul> <li>2.2. Label elements</li> <li>GHS-US labeling</li> <li>Hazard pictograms (GHS-US)</li> <li>Signal word (GHS-US)</li> <li>Hazard statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>Precautionary statements (GHS-US)</li> <li>No additional information available</li> <li>2.4. Unknown acute toxicity (GHS US)</li> <li>Not applicable</li> </ul>     | <ul> <li>: Warning</li> <li>: H319 - Causes serious eye irritation</li> <li>: P264 - Wash skin thoroughly after handling<br/>P280 - Wear protective gloves/protective clothing/eye protection/face protection<br/>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact<br/>lenses, if present and easy to do. Continue rinsing<br/>P337+P313 - If eye irritation persists: Get medical advice/attention</li> </ul> |

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| Name  |  | Product identifier  | %   | Classification (GHS-US)   |
|---|--|---|---|---|
| N-Acetylneuraminic acid   |  | (CAS No) 131-48-6   | <= 100  | Eye Irrit. 2A, H319   |
| (Main constituent)<br>full text of H-phrases: see section 16  |  |   |   |   |
| .2. Mixture   |  |   |   |   |
| Not applicable  |  |   |   |   |
| SECTION 4: First aid measures   |  |   |   |   |
|   |  |   |   |   |
| 4.1. Description of first aid measures  |  |   |   |   |
| First-aid measures general  | where  | e of accident or if you feel unwell, seel<br>possible). Move the affected personn   | el away from the  | contaminated area.  |
| First-aid measures after inhalation   | respir   | ve person to fresh air and keep comfo ation. Get medical advice/attention.  |   |   |
| First-aid measures after skin contact   |  | with plenty of soap and water. Get me   |   |   |
| First-aid measures after eye contact  | prese  | diately flush eyes thoroughly with wate<br>nt and easy to do. Continue rinsing. Ge  | et medical advice   | /attention.   |
| First-aid measures after ingestion  |  | DT induce vomiting. Never give anythin out with water. Get medical advice/at  |   | unconscious person. Rinse   |
| 4.2. Most important symptoms and effe   | ects, both a   | acute and delayed   |   |   |
| Symptoms/injuries   |  | nost important known symptoms and e<br>nd/or in section 11.   | fects are describ   | ed in the labelling (see section  |
| 4.3. Indication of any immediate medic  | al attentio  | n and special treatment needed  |   |   |
| Treat symptomatically.  |  |   |   |   |
|   |  |   |   |   |
| SECTION 5: Firefighting measures  |  |   |   |   |
| 5.1. Extinguishing media  | Alask  | - Internet for an Order of Marida Day   |   | and the second second state is a second s             |
| Suitable extinguishing media  |  | ol resistant foam. Carbon dioxide. Dry priate for surrounding fire.   | powder. Water sp  | oray. Use extinguishing media   |
|   | appio  | phate for surrounding file.   |   |   |
| 5.2. Special hazards arising from the s   |  | · •   |   |   |
| l l   | ubstance o   | · •   | oxides. Nitrogen c  | ixides.   |
| Fire hazard   | ubstance o   | or mixture  | oxides. Nitrogen c  | xides.  |
| Fire hazard 5.3. Advice for firefighters  | ubstance of the state of the st | or mixture  | xides. Nitrogen c   | xides.  |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions  | : Thern<br>: In cas<br>: Wear  | or mixture<br>nal decomposition generates: Carbon o   | in combination v  | vith self contained breathing   |
| Fire hazard<br>5.3. Advice for firefighters<br>Firefighting instructions<br>Protection during firefighting<br>SECTION 6: Accidental release me  | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures  | or mixture<br>nal decomposition generates: Carbon of<br>the of fire: Evacuate area.<br>gas tight chemically protective clothing<br>atus. For further information refer to se  | in combination v  | vith self contained breathing   |
| Fire hazard<br>5.3. Advice for firefighters<br>Firefighting instructions<br>Protection during firefighting<br>SECTION 6: Accidental release met<br>6.1. Personal precautions, protective e  | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a   | and emergency procedures  | in combination v<br>ction 8: "Exposur   | vith self contained breathing<br>e controls/personal protection".   |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release met 6.1. Personal precautions, protective e   | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a   | or mixture<br>nal decomposition generates: Carbon of<br>the of fire: Evacuate area.<br>gas tight chemically protective clothing<br>atus. For further information refer to se  | in combination v<br>ction 8: "Exposur   | vith self contained breathing<br>e controls/personal protection".   |
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| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel  | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a<br>: Evacu  | and emergency procedures<br>uate unnecessary personnel. Ensure ac   | in combination v<br>ction 8: "Exposur<br>dequate air ventila  | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.                           |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures  | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a<br>: Evacu  | and emergency procedures  | in combination v<br>ction 8: "Exposur<br>dequate air ventila  | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.                           |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release met 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders  | asures<br>equipment a<br>: Only o  | and emergency procedures<br>uate unnecessary personnel. Ensure ac<br>qualified personnel equipped with suita  | in combination v<br>ction 8: "Exposur<br>dequate air ventil<br>ble protective equ   | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.<br>uipment may intervene. |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release met 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders  | substance of<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment :<br>: Evacu<br>: Only of<br>: Do no   | and emergency procedures<br>uate unnecessary personnel. Ensure ac   | in combination v<br>ction 8: "Exposur<br>dequate air ventil<br>ble protective equip<br>e protective equip                     | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.<br>uipment may intervene. |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release med 6.1. Personal precautions, protective of General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment  | substance of<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment :<br>: Evacu<br>: Only of<br>: Do no   | or mixture<br>nal decomposition generates: Carbon of<br>the of fire: Evacuate area.<br>gas tight chemically protective clothing<br>atus. For further information refer to se<br>and emergency procedures<br>uate unnecessary personnel. Ensure an<br>qualified personnel equipped with suita<br>t attempt to take action without suitable   | in combination v<br>ction 8: "Exposur<br>dequate air ventil<br>ble protective equip<br>e protective equip                     | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.<br>uipment may intervene. |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release met 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions  | substance of<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a<br>: Evacu<br>: Only of<br>: Do no<br>refer t  | or mixture<br>nal decomposition generates: Carbon of<br>the of fire: Evacuate area.<br>gas tight chemically protective clothing<br>atus. For further information refer to se<br>and emergency procedures<br>uate unnecessary personnel. Ensure an<br>qualified personnel equipped with suitable<br>to attempt to take action without suitable<br>to section 8: "Exposure controls/person      | in combination v<br>ction 8: "Exposur<br>dequate air ventil<br>ble protective equip<br>e protective equip                     | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.<br>uipment may intervene. |
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| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release met 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment   | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a<br>: Evacu<br>: Only o<br>: Do no<br>refer t<br>rities if prod<br>nent and cl   | or mixture<br>nal decomposition generates: Carbon of<br>the of fire: Evacuate area.<br>gas tight chemically protective clothing<br>atus. For further information refer to se<br>and emergency procedures<br>uate unnecessary personnel. Ensure an<br>qualified personnel equipped with suitable<br>to section 8: "Exposure controls/person<br>uct enters sewers or public waters.             | in combination v<br>ction 8: "Exposur<br>dequate air ventil<br>ble protective equip<br>e protective equip                     | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.<br>uipment may intervene. |
| Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. Notify autho 6.3. Methods and material for containn | substance c<br>: Therm<br>: In cas<br>: Wear<br>appar<br>asures<br>equipment a<br>: Evacu<br>: Only o<br>: Do no<br>refer t<br>rities if prod<br>nent and cl<br>: Stop l   | or mixture<br>nal decomposition generates: Carbon of<br>ee of fire: Evacuate area.<br>gas tight chemically protective clothing<br>atus. For further information refer to se<br>and emergency procedures<br>uate unnecessary personnel. Ensure an<br>qualified personnel equipped with suitable<br>to section 8: "Exposure controls/persor<br>uct enters sewers or public waters.<br>eaning up | in combination v<br>ction 8: "Exposur<br>dequate air ventile<br>ble protective equip<br>a protective equip<br>al protection". | vith self contained breathing<br>re controls/personal protection".<br>ation. Do not breathe dust.<br>uipment may intervene. |

No additional information available

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| SECTION 7: Handling and storage           |  |  |  |
|---|--|--|--|
| 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 dust, mist, spray. 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, includi | ng any incompatibilities   |  |  |
| Technical measures                        | : Comply with applicable regulations.  |  |  |
| Storage conditions                        | : Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.   |  |  |
| Incompatible materials                    | : Refer to Section 10 on Incompatible Materials.   |  |  |
| Storage temperature                       | : -2510 °C Use explosion proof freezer   |  |  |
| 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 | : 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. |
| 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<br>Protection.  |
| Other information                | : Safety shoes. 29 CFR 1910.136: Foot Protection.   |
|                                  |   |

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

| 44/00/0040                                  |                       |  |
|---|-----------------------|--|
| Viscosity, kinematic                        | : No data available   |  |
| Viscosity                                   | : No data available   |  |
| Decomposition temperature                   | : No data available   |  |
| Auto-ignition temperature                   | : No data available   |  |
| Log Pow                                     | : No data available   |  |
| Solubility                                  | : No data available   |  |
| Molecular mass                              | : 309.2699 g/mol      |  |
| Relative vapor density at 20 °C             | : No data available   |  |
| Relative density                            | : No data available   |  |
| Vapor pressure                              | : No data available   |  |
| Oxidizing properties                        | : No data available   |  |
| Explosive properties                        | : No data available   |  |
| Explosion limits                            | : No data available   |  |
| Flammability (solid, gas)                   | : No data available   |  |
| Relative evaporation rate (butyl acetate=1) | : No data available   |  |
| Flash point                                 | : No data available   |  |
| Boiling point                               | : No data available   |  |
| Freezing point                              | : No data available   |  |
| Melting point                               | : 184 - 186 °C (dec.) |  |
| рН  | : No data available   |  |
| Odor threshold                              | : No data available   |  |
| Odor  | : No data available   |  |
| Color                                       | : No data available   |  |
| Physical state                              | : Solid               |  |
| 9.1. Information on basic physical and      | I chemical properties |  |

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| Viscosit | y, dynamic                                  | : No data available  |
|----------|---|--|
| 9.2.     | Other information                           |  |
| No addi  | tional information available                |  |
| SECT     | ION 10: Stability and reactivity            |  |
| 10.1.    | Reactivity                                  |  |
| No addi  | tional information available                |  |
| 10.2.    | Chemical stability                          |  |
| The pro  | duct is stable at normal handling and stora | age conditions.  |
| 10.3.    | Possibility of hazardous reactions          |  |
| No addi  | tional information available                |  |
| 10.4.    | Conditions to avoid                         |  |
| Keep av  | way from heat, sparks and flame.            |  |
| 10.5.    | Incompatible materials                      |  |
| Strong   | oxidizing agents.                           |  |
| 10.6.    | Hazardous decomposition products            |  |
|          | normal conditions of storage and use, haza  | ardous decomposition products should not be produced. Hazardous decomposition products in case o |

| Acute toxicity                                     | : Not classified                 |
|--|----------------------------------|
| Skin corrosion/irritation                          | : Not classified                 |
| 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)   | : Not classified                 |
| Specific target organ toxicity (repeated exposure) | : Not classified                 |
| Aspiration hazard                                  | : Not classified                 |

| SECTIO                              | DN 12: Ecological information       |  |  |  |
|-------------------------------------|-------------------------------------|--|--|--|
| 12.1.                               | Toxicity                            |  |  |  |
| No additio                          | onal information available          |  |  |  |
| 12.2.                               | Persistence and degradability       |  |  |  |
| No additio                          | No additional information available |  |  |  |
| 12.3.                               | Bioaccumulative potential           |  |  |  |
| No additio                          | No additional information available |  |  |  |
| 12.4.                               | Mobility in soil                    |  |  |  |
| No additional information available |                                     |  |  |  |
| 12.5.                               | Other adverse effects               |  |  |  |
| No additio                          | No additional information available |  |  |  |

| SECTION 13: Disposal considerations |   |  |  |
|-------------------------------------|---|--|--|
| 13.1. Waste treatment methods       |   |  |  |
| Waste treatment methods             | : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.   |  |  |
| Waste 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.

### **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

#### N-Acetylneuraminic acid (131-48-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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

#### N-Acetylneuraminic acid (131-48-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

N-AcetyIneuraminic acid (131-48-6) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) 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:

| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
|---------------|---|
| H319          | Causes serious eye irritation                 |

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| NFPA health hazard | : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.   |
|--------------------|---|
| NFPA fire hazard   | : 0 - Materials that will not burn.   |
| NFPA reactivity    | : 0 - Normally stable, even under fire exposure conditions,<br>and are not reactive with water.   |
| HMIS III Rating    |   |
| Health             | : 1 Slight Hazard - Irritation or minor reversible injury possible  |
| 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. |

#### 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.