

Safety Data Sheet 1100B23 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/03/2016 Version: 1.0

| 1.1. Identification   |  |
|---|--|
| Product form  | : Substance  |
| Substance name  | : 2,2,3-Tribromo-1,1,1-trifluoropropane  |
| CAS No  | : 421-90-9   |
| Product code  | : 1100-B-23  |
| Formula   | : C3H2Br3F3  |
| Synonyms  | : 1,2,2-Tribromo-3,3,3-trifluoropropane  |
| Other means of identification   | : MFCD00042389   |
| 1.2. Relevant identified uses of the  | 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 sa  | fety data sheet  |
| SynQuest Laboratories, Inc.<br>P.O. Box 309<br>Alachua, FL 32615 - United States of Ameri<br>T (386) 462-0788 - F (386) 462-7097<br>info@synquestlabs.com - www.synquestlab   |  |
| 1.4. Emergency telephone number   |  |
| Emergency number  | : (844) 523-4086 (3E Company - Account 10069)  |
| SECTION 2: Hazard(s) identificat  | ion  |
| 2.1. Classification of the substance  |  |
| Classification (GHS-US)   |  |
| Eye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratoOzone 1H420 - Harms public health  | irritation   |
| Eye Irrit. 2A H319 - Causes serious eye<br>STOT SE 3 H335 - May cause respirato<br>Ozone 1 H420 - Harms public health<br>Full text of H-phrases: see section 16   | irritation<br>ry irritation  |
| Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Ozone 1       H420 - Harms public health         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling      | irritation<br>ry irritation  |
| Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Ozone 1       H420 - Harms public health         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling      | irritation<br>ry irritation  |
| Eye Irrit. 2A H319 - Causes serious eye<br>STOT SE 3 H335 - May cause respirato<br>Ozone 1 H420 - Harms public health<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>irritation<br/>any irritation<br/>and the environment by destroying ozone in the upper atmosphere</li> <li>:</li> </ul>   |
| Eye Irrit. 2A H319 - Causes serious eye<br>STOT SE 3 H335 - May cause respirato<br>Ozone 1 H420 - Harms public health<br>Full text of H-phrases: see section 16   | irritation<br>ry irritation<br>and the environment by destroying ozone in the upper atmosphere : : GHS07   |
| Eye Irrit. 2A H319 - Causes serious eye<br>STOT SE 3 H335 - May cause respirato<br>Ozone 1 H420 - Harms public health<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>irritation<br/>ry irritation<br/>and the environment by destroying ozone in the upper atmosphere</li> <li>:<br/>• • • • • • • • • • • • • • • • • • •</li></ul> |

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- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant
- P502 Refer to manufacturer/supplier for information on recovery/recycling

| No additional information available                         |   |   |  |  |
|---|---|---|--|--|
| 2.4. Unknown acute toxicity (GHS US)                        |   |   |  |  |
| Not applicable  |   |   |  |  |
| SECTION 3: Composition/informatio                           | n on ingredients  |   |  |  |
| 3.1. Substance  |   |   |  |  |
| Substance type  | : Mono-constituent  |   |  |  |
| Name  | Product identifier  | %   | Classification (GHS-US)  |  |
| 2,2,3-Tribromo-1,1,1-trifluoropropane<br>(Main constituent) | (CAS No) 421-90-9   | <= 100  | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335<br>Ozone 1, H420 |  |
| Full text of H-phrases: see section 16                      |   | L.  |  |  |
| 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 unw where possible). Move the affected p   | ersonnel away from th   | e contaminated area.   |  |
| First-aid measures after inhalation                         |   | Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. |  |  |
| First-aid measures after skin contact                       | Wash with plenty of soap and water. Get 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 medical advice/attention.<br>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse |   |  |  |
| First-aid measures after ingestion                          | : Do NOT induce vomiting. Never give mouth out with water. Get medical a  |   | an unconscious person. Rinse   |  |
| 4.2. Most important symptoms and effec                      | ts, both acute and delayed  |   |  |  |
| Symptoms/injuries   | : The most important known symptom 2.2) and/or in section 11.   | s and effects are descr   | ibed in the labelling (see section   |  |
| 4.3. Indication of any immediate medical                    | attention and special treatment need  | ed  |  |  |
| Treat symptomatically.                                      |   |   |  |  |
| SECTION 5: Firefighting measures                            |   |   |  |  |
| 5.1. Extinguishing media                                    |   |   |  |  |
| Suitable extinguishing media                                | : Alcohol resistant foam. Carbon dioxi appropriate for surrounding fire.  | de. Dry powder. Water   | spray. Use extinguishing media   |  |
| 5.2. Special hazards arising from the sul                   | ostance or mixture  |   |  |  |
| Fire hazard   | : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Hydrogen fluoride.  |   |  |  |
| Explosion hazard  | Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.   |   |  |  |
| 5.3. Advice for firefighters                                |   |   |  |  |
| Firefighting instructions                                   | : In case of fire: Evacuate area. Fight   | fire remotely due to the  | risk of explosion.   |  |
| 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 meas                          |   |   |  |  |
| 6.1. Personal precautions, protective eq                    |   |   |  |  |
| General measures  | : Evacuate unnecessary personnel. E vapor or spray.   | nsure adequate air ven  | tilation. Do not breathe gas, fumes,   |  |
| 6.1.1. For non-emergency personnel                          |   |   |  |  |
|   | : Only qualified personnel equipped w   | ith quitable protective c   | auipmont may intervene   |  |

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| refer to section 8: "Exposure controls/personal protection". reference to containment and cleaning up recautions and it is afe to do so. Dike for recovery or absorb with appropriate material. r 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. Use explosion-proof equipment. Take up small spills 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. mation For disposal of solid materials or residues refer to section 13 : "Disposal considerations". Reference to other sections ala information available N7: Handling and storage recautions for safe handling for safe storage, including any incompatibilities neasures for comply with applicable regulations. for safe storage, including any incompatibilities neasures for safe storage, including any incompatibilities for safe storage, including any incompatibilities for safe storage. For observation 10 on Incompatibile Materials. Fo | 6.1.2. For emergency responders            |   |
|--|--|---|
| Invironmental precautions         Environmental precautions         use to the environment. Notify authorities if product enters sewers or public waters.         Alethods and material for containment and cleaning up         ment       : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.         r 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.         mation       : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".         Reference to other sections  | Protective equipment                       |   |
| All the environment. Notify authorities if product enters sewers or public waters.  All thods and material for containment and cleaning up  Imment Im | Emergency procedures                       | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. |
| Attribute       Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.         imment       :       Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.         ir 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.         mation       :       For disposal of solid materials or residues refer to section 13 : "Disposal considerations".         Reference to other sections       .         mation available       N 7: Handling and storage         Precautions for safe handling       :         is for safe handling       :         s for safe handling       :         easures       :         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.         Conditions for safe storage, including any incompatibilities         measures       :         comply with applicable regulations.         iditions       :         Keep container closed when not in use.         le materials       :  | 6.2. Environmental precautions             |   |
| ment       : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.         r 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.         mation       : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".         Reference to other sections       : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".         NT: Handling and storage  | Avoid release to the environment. Notify a | uthorities if product enters sewers or public waters.   |
| r 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.         mation       : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".         Reference to other sections       .         nal information available       .         N 7: Handling and storage       .         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.         easures       : 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.         Conditions for safe storage, including any incompatibilities         neasures       : Comply with applicable regulations.         nditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.   | 6.3. Methods and material for cont         | ainment and cleaning up   |
| explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.         mation       : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".         Reference to other sections   | For containment                            | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.                    |
| Reference to other sections         hal information available         N 7: Handling and storage         Precautions for safe handling         s 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.         easures       : 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.         Conditions for safe storage, including any incompatibilities       : Comply with applicable regulations.         inditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.   | Methods for cleaning up                    | explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel            |
| nal information available         N 7: Handling and storage         Precautions for safe handling         s 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.         easures       : 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.         conditions for safe storage, including any incompatibilities         neasures       : Comply with applicable regulations.         inditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.  | Other information                          | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".          |
| N 7: Handling and storage         Precautions for safe handling         s 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.         easures       : 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.         Conditions for safe storage, including any incompatibilities         neasures       : Comply with applicable regulations.         inditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.  | 6.4. Reference to other sections           |   |
| 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.         easures       : 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.         Conditions for safe storage, including any incompatibilities       : Comply with applicable regulations.         Inditions       : Keep container closed when not in use.         Ie materials       : Refer to Section 10 on Incompatible Materials.   | No additional information available        |   |
| 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.         easures       : 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.         Conditions for safe storage, including any incompatibilities       : Comply with applicable regulations.         Inditions       : Keep container closed when not in use.         Ie materials       : Refer to Section 10 on Incompatible Materials.   | SECTION 7: Handling and stora              | qe  |
| ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.         easures       : 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.         Conditions for safe storage, including any incompatibilities         neasures       : Comply with applicable regulations.         nditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.   | 7.1. Precautions for safe handling         |   |
| conditions for safe storage, including any incompatibilities         neasures       : Comply with applicable regulations.         nditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.  | Precautions for safe handling              | ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal               |
| neasures: Comply with applicable regulations.nditions: Keep container closed when not in use.le materials: Refer to Section 10 on Incompatible Materials.  | Hygiene measures                           |   |
| nditions       : Keep container closed when not in use.         le materials       : Refer to Section 10 on Incompatible Materials.  | 7.2. Conditions for safe storage, in       | cluding any incompatibilities   |
| le materials : Refer to Section 10 on Incompatible Materials.  | Technical measures                         | : Comply with applicable regulations.   |
| · ·  | Storage conditions                         | : Keep container closed when not in use.  |
| ea : Store in dry, cool, well-ventilated area. Light sensitive.  | Incompatible materials                     | : Refer to Section 10 on Incompatible Materials.  |
|  | Storage area                               | : Store in dry, cool, well-ventilated area. Light sensitive.  |
| N 8: Exposure controls/personal protection   | Storage area                               | : Store in dry, cool, well-ventilated area. Light sensitive.  |

8.1. Control parameters

No additional information available

| 8. | 2. Exposure controls            |   |
|----|---------------------------------|---|
| Ap | ppropriate 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. |
| Ha | and protection                  | : Protective gloves. 29 CFR 1910.138: Hand Protection.  |
| Ey | ye protection                   | : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.  |
| SI | kin and body protection         | : Wear suitable protective clothing.  |
| R  | espiratory protection           | : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory<br>Protection.  |
| 0  | ther information                | : Safety shoes. 29 CFR 1910.136: Foot Protection.   |

| 9.1. Information on basic physical and      | d 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                               | : 81 °C (@ 46 mm Hg)  |
| Flash point                                 | : No data available   |
| Relative evaporation rate (butyl acetate=1) | : No data available   |

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| <b>.</b> .                      |                        |
|---------------------------------|------------------------|
| 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      | : 2.472 g/ml (@ 20 °C) |
| Molecular mass                  | : 334.76 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          |                        |

Other information 9.2

Refractive index

: 1.483 (@ 20 °C)

| 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                        |
| May poly | ymerize.  |
| 10.4.    | Conditions to avoid                                       |

Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Keep away from heat, sparks and flame.

#### 10.5. Incompatible materials

Alkali metals. Finely divided metals (Al, Mg, Zn). Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

SECTION 10: Stability and reactivity

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

#### **SECTION 11: Toxicological information** Information on toxicological effects 11.1. Acute toxicity : Not classified 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 : Not classified exposure) : Not classified Aspiration hazard

| SECTION 12: Ecological in           | formation       |                 |     |
|-------------------------------------|-----------------|-----------------|-----|
| 12.1. Toxicity                      |                 |                 |     |
| No additional information available |                 |                 |     |
| 12/06/2016                          | EN (English US) | SDS ID: 1100B23 | 4/6 |

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| 12.2.    | Persistence and degradability |
|----------|-------------------------------|
| No addit | tional information available  |
| 12.3.    | Bioaccumulative potential     |
| No addit | tional information available  |
| 12.4.    | Mobility in soil              |
|          | tional information available  |
| NU auun  |                               |
| 12.5.    | Other adverse effects         |
|          |                               |

Other information

OFOTION

: Class I - Group VII ozone-depleting substance.

| SECTION 13: Disposal consideration | ns  |
|------------------------------------|---|
| 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. |
| 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

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:

|  | 2,2,3-Tribromo-1,1,1-trifluoropropane | CAS No 421-90-9 | 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**

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| Full tex            | t of H-phrases: |  |
|---------------------|-----------------|--|
|                     | Eye Irrit. 2A   | Serious eye damage/eye irritation Category 2A  |
|                     | Ozone 1         | Hazardous to the ozone layer Category 1  |
|                     | 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   |
|                     | H420            | Harms public health and the environment by destroying ozone in the<br>upper atmosphere   |
| NFPA health hazard  |                 | <ul> <li>: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>: 0 - Materials that will not burn.</li> </ul> |
| NFPA reactivity     |                 | <ul> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>   |
| HMIS I              | I Rating        |  |
| Health : 1 Slight H |                 | : 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  |

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.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.