

Safety Data Sheet 1900321 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/02/2017 Version: 1.1

| SECTION 1: Identification 1.1. Identification  |   |  |
|--|---|--|
|  |   |  |
| Product form   | : Substance   |  |
| Substance name : 3,4,5-Trifluorophenylacetylene  |   |  |
| CAS No   |   |  |
| Product code   |   |  |
| Formula  |   |  |
| Synonyms : 5-Ethynyl-1,2,3-trifluorobenzene  |   |  |
| Other means of identification  | : MFCD08458177  |  |
| 1.2. Relevant identified uses of the s   | ubstance 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   | ety data sheet  |  |
| 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<br>1.4. Emergency telephone number |   |  |
| Emergency relephone number   | : (844) 523-4086 (3E Company - Account 10069)   |  |
| Full text of H-phrases: see section 16   |   |  |
|  |   |  |
| 2.2. Label elements  |   |  |
| 2.2. Label elements<br>GHS-US labeling   |   |  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)   | :<br>GHS07<br>Warning   |  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)<br>Signal word (GHS-US)   | :<br>GHS07<br>: Warning<br>: H315 - Causes skin irritation<br>H319 - Causes serious eye irritation<br>H335 - May cause respiratory irritation |  |
| 2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)   | : H315 - Causes skin irritation<br>H319 - Causes serious eye irritation   |  |

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| 2.3. Other hazards  |  |                    |   |
|---|--|--------------------|---|
| No additional information available 2.4. Unknown acute toxicity (GHS US)  |  |                    |   |
| 2.4. Unknown acute toxicity (GHS US) Not applicable   |  |                    |   |
|   |  |                    |   |
| SECTION 3: Composition/information o  | in ingredients   |                    |   |
| 3.1. Substance  | Management   |                    |   |
| ubstance type : Mono-constituent  |  |                    |   |
| Name  | Product identifier   | %                  | Classification (GHS-US)                                       |
| 3,4,5-Trifluorophenylacetylene<br>(Main constituent)  | (CAS No) 158816-55-8   | <= 100             | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |
| Full text of H-phrases: see section 16  |  |                    |   |
| 3.2. Mixture  |  |                    |   |
| Not applicable  |  |                    |   |
| SECTION 4: First aid measures   |  |                    |   |
| 4.1. Description of first aid measures  |  |                    |   |
|   | In case of accident or if you feel unwell, seek in where possible). Move the affected personnel                        |                    |   |
|   | Remove person to fresh air and keep comforta respiration. Get medical advice/attention.                                | able for breathing | g. If not breathing, give artificial                          |
| First-aid measures after skin contact :   | Wash with plenty of soap and water. Get medi   | ical advice/atten  | tion.   |
| 2   | Immediately flush eyes thoroughly with water the present and easy to do. Continue rinsing. Get                         |                    | -   |
| First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. |  |                    | unconscious person. Rinse                                     |
| 4.2. Most important symptoms and effects,   | both acute and delayed   |                    |   |
|   | : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. |                    |   |
| 4.3. Indication of any immediate medical att  | ention 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 sp    | ray. Use extinguishing media                                  |
| 5.2. Special hazards arising from the substa  | nce or mixture   |                    |   |
| Fire hazard :   | Thermal decomposition generates: Carbon ox   | ides. Hydrogen f   | fluoride.   |
| 5.3. Advice for firefighters  |  |                    |   |
| Firefighting instructions : In case of fire: Evacuate area.   |  |                    |   |
|   |  |                    |   |
| SECTION 6: Accidental release measures  |  |                    |   |
| 6.1. Personal precautions, protective equipr  |  |                    |   |
|   | Evacuate unnecessary personnel. Ensure ade   | equate air ventila | ation. Do not breathe dust.                                   |
|   |  |                    |   |
| 6.1.1. For non-emergency personnel  | Only qualified personnel equipped with suitch  | e protectivo cau   | inment may intervena  |
| Emergency procedures :  | Only qualified personnel equipped with suitabl   | e protective equ   | ipment may intervelle.  |
| 6.1.2. For emergency responders   |  |                    |   |
|   | Do not attempt to take action without suitable<br>refer to section 8: "Exposure controls/persona                       |                    | ment. For further information                                 |
| 6.2. Environmental precautions  |  |                    |   |
|   |  |                    |   |

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

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| 6.3. Methods and material for containing                          | ent and cleaning up  |  |
|---|--|--|
| For containment   | : Stop leak if safe to do so.  |  |
| Methods for cleaning up   | : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.   |  |
| 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 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, including any incompatibilities |  |  |
| Technical measures  | : Comply with applicable regulations.  |  |
| Storage conditions  | : Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.   |  |
| Incompatible materials  | : Refer to Section 10 on Incompatible Materials.   |  |
| Storage temperature   | : 2-8 °C   |  |
| Storage area  | : Store in dry, cool, well-ventilated area.  |  |

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

**SECTION 9: Physical and chemical properties** 

#### 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.   |

| 9.1. Information on basic physical an       | nd chemical properties   |
|---|--------------------------|
| Physical state                              | : Solid                  |
| Appearance                                  | : Low melting solid.     |
| 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                               | : 53 - 54 °C (@ 1 mm Hg) |
| Flash point                                 | : No data available      |
| 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      |
| 02/10/2021                                  | EN (English US)          |

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| Relative vapor density at 20 °C | : No data available |
|---------------------------------|---------------------|
| Molecular mass                  | : 156.1 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                                | ION 10: Stability and reactivity                          |  |
|-------------------------------------|---|--|
| 10.1.                               | Reactivity  |  |
| No additional information available |   |  |
| 10.2.                               | Chemical stability  |  |
| The pro                             | duct is stable at normal handling and storage 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.            |   |  |
|                                     |   |  |

Hazardous decomposition products 10.6.

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              |                                     |  |
|--|-------------------------------------|--|
| 11.1. Information on toxicological effects         |                                     |  |
| 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 exposure) | : Not classified                    |  |
| Aspiration hazard                                  | : Not classified                    |  |

| SECT                                | ION 12: Ecological information |  |  |
|-------------------------------------|--------------------------------|--|--|
| 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 addi                             | tional information available   |  |  |

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## 12.5. Other adverse effects

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. |  |  |
| 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 (13CA) inventory exception. |                    |      |  |
|--|--------------------|------|--|
| 3,4,5-Trifluorophenylacetylene                     | CAS No 158816-55-8 | 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**

### 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                            |  |

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| 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<br>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)

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