

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 281530H Issue date: 10.01.2024 Version: 1.0

| SECTION 1: Identification  |  |
|--|--|
| 1.1. Identification  |  |
| Product form<br>Substance name<br>CAS-No.<br>Product code<br>Formula<br>Other means of identification  | <ul> <li>Substance</li> <li>2-Fluoro-4-methyl-5-(trifluoromethyl)benzaldehyde</li> <li>669080-88-0</li> <li>2815-3-0H</li> <li>C9H6F4O</li> <li>MFCD27927223</li> </ul>                    |
| 1.2. Recommended use and restrictions or   | ) use  |
| Use of the substance/mixture   | : Laboratory chemicals<br>Manufacture of substances<br>Scientific research and development   |
| 1.3. Supplier  |  |
| SynQuest Laboratories, Inc. Inc.<br>P.O. Box 309<br>Alachua, FL, Alachua, 32615<br>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  |  |
| Emergency number   | : (844) 523-4086 (3E Company - Account 10069)  |
| SECTION 2: Hazard(s) identification  |  |
| 2.1. Classification of the substance or mix  | ture   |
| GHS US classification<br>Skin corrosion/irritation Category 2<br>Serious eye damage/eye irritation Category 2A<br>Specific target organ toxicity – Single exposure, Ca<br>Respiratory tract irritation<br>Full text of H statements : see section 16 | H315 Causes skin irritation<br>H319 Causes serious eye irritation<br>tegory 3, H335 May cause respiratory irritation   |
| 2.2. GHS Label elements, including precau  | itionary statements  |
| GHS US labeling  |  |
| Hazard pictograms (GHS US)   |  |
| Signal word (GHS US)<br>Hazard statements (GHS US)   | <ul> <li>Warning</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>                          |
| Precautionary statements (GHS US)  | <ul> <li>P261 - Avoid breathing fumes, mist, spray, vapors.</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> </ul> |

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P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of soap and water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards which do not result in classification

#### No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Substance type

: Mono-constituent

| Name  | Product identifier       | % | GHS US classification   |
|---|--------------------------|---|---|
| 2-Fluoro-4-methyl-5-(trifluoromethyl)benzaldehyde<br>(Main constituent) | CAS-No.: 669080-88-<br>0 |   | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

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 medical advice immediately (show the label where possible). Move the affected personnel away from the 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.  |  |
| 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.                                 |  |
| 4.2. Most important symptoms and effects | (acute and delayed)  |  |
| Symptoms/effects                         | : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.   |  |

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## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

| SECTION 5: Fire-fighting measures                           |   |  |  |
|---|---|--|--|
| 5.1. Suitable (and unsuitable) extinguishing media          |   |  |  |
| Suitable extinguishing media                                | : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.  |  |  |
| 5.2. Specific hazards arising from the                      | e chemical  |  |  |
| Fire hazard   | : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.  |  |  |
| 5.3. Special protective equipment and                       | d precautions for fire-fighters   |  |  |
| Firefighting instructions<br>Protection during firefighting | <ul> <li>In case of fire: Evacuate area.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul> |  |  |

| 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 dust. Do not breathe gas, fumes, vapor or spray.                          |  |
| 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". |  |
| 6.2. Environmental precautions         |   |  |

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

| 6.3. Methods and material for con | tainment and cleaning up   |
|-----------------------------------|--|
| For containment                   | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.   |
| Methods for cleaning up           | : Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area. |
| Other information                 | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".   |

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, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. |

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| 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<br>Storage conditions<br>Incompatible materials<br>Storage area | <ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use. Air sensitive. Keep contents under inert gas.</li> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> |  |

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

#### 8.1. Control parameters

2-Fluoro-4-methyl-5-(trifluoromethyl)benzaldehyde (669080-88-0)

No additional information available

8.2. Appropriate engineering 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.

#### 8.3. Individual protection measures/Personal protective equipment

#### 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 Protection

#### Personal protective equipment symbol(s):



#### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

| SECTION 9: Physical and chemical properties |                                |  |
|---|--------------------------------|--|
| 9.1. Information on basic ph                | ysical and chemical properties |  |
| Physical state                              | : Liquid                       |  |
| Appearance                                  | : Low melting solid.           |  |
| Color                                       | : No data available            |  |
| Odor  | : No data available            |  |
| Odor threshold                              | : No data available            |  |
| pН  | : No data available            |  |

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| Melting point                                   | : No data available |
|---|---------------------|
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : No data available |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : No data available |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20 °C                 | : No data available |
| Relative density                                | : No data available |
| Molecular mass                                  | : 206,14 g/mol      |
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : No data available |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |
|   |                     |

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

**10.2. Chemical stability** 

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

**10.5. Incompatible materials** 

Strong oxidizing agents.

**10.6. Hazardous decomposition products** 

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

| SECTION 11: Toxicological information   |   |  |
|---|---|--|
| 11.1. Information on toxicological effects  |   |  |
| Acute toxicity (oral)<br>Acute toxicity (dermal)<br>Acute toxicity (inhalation)<br>Skin corrosion/irritation<br>Serious eye damage/irritation | <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> </ul> |  |

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| Respiratory or skin sensitization | : Not classified   |
|-----------------------------------|--|
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : May cause respiratory irritation.  |
| STOT-repeated exposure            | : Not classified   |
| Aspiration hazard                 | : Not classified   |
| Viscosity, kinematic              | : No data available  |
| Symptoms/effects                  | : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. |

## **SECTION 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 additional information available |
| 12.5. Other adverse effects         |
| No additional information available |

| SECTION 13: Disposal considerations   |  |
|---|--|
| 13.1. Disposal methods  |  |
| Waste treatment methods<br>Product/Packaging disposal recommendations<br>Additional information | <ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul> |

| SECTION 14: Transport information  |  |  |  |  |
|--|--|--|--|--|
| 14.1. UN number  |  |  |  |  |
| DOT NA No<br>UN-No. (TDG)<br>UN-No. (IMDG)<br>UN-No. (IATA)  | <ul><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li></ul>      |  |  |  |
| 14.2. UN proper shipping name  |  |  |  |  |
| Proper Shipping Name (DOT)<br>Proper Shipping Name (TDG)<br>Proper Shipping Name (IMDG)<br>Proper Shipping Name (IATA) | <ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul> |  |  |  |

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| 14.3. Transport hazard class(es)  |  |      |  |  |
|---|--|------|--|--|
| DOT<br>Transport hazard class(es) (DOT) :   | Not applicable   |      |  |  |
| TDG<br>Transport hazard class(es) (TDG) :   | Not applicable   |      |  |  |
| IMDG<br>Transport hazard class(es) (IMDG) :   | Not applicable   |      |  |  |
| IATA<br>Transport hazard class(es) (IATA) :   | Not applicable   |      |  |  |
| 14.4. Packing group   |  |      |  |  |
| Packing group (DOT):Packing group (TDG):Packing group (IMDG):Packing group (IATA):  | Not applicable<br>Not applicable<br>Not applicable<br>Not applicable |      |  |  |
| 14.5. Environmental hazards   |  |      |  |  |
| Other information :   | No supplementary information available                               | e.   |  |  |
| 14.6. Special precautions for user  |  |      |  |  |
| DOT<br>Not applicable   |  |      |  |  |
| TDG<br>Not applicable   |  |      |  |  |
| IMDG<br>Not applicable  |  |      |  |  |
| IATA<br>Not applicable  |  |      |  |  |
| 14.7. Transport in bulk according to Annex II   | of MARPOL 73/78 and the IBC Co                                       | de   |  |  |
| Not applicable  |  |      |  |  |
| SECTION 15: Regulatory information  |  |      |  |  |
| 15.1. US Federal regulations  |  |      |  |  |
| All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for: |  |      |  |  |
| 2-Fluoro-4-methyl-5-(trifluoromethyl)benzaldehyde   | CAS-No. 669080-88-0  | 100% |  |  |
| 15.2. International regulations   |  |      |  |  |
| CANADA  |  |      |  |  |
| No additional information available   |  |      |  |  |
| EU-Regulations  |  |      |  |  |
| No additional information available   |  |      |  |  |
| National regulations  |  |      |  |  |
| No additional information available   |  |      |  |  |

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### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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| Full text of H-phrases |                                  |   |  |  |
|------------------------|----------------------------------|---|--|--|
| H315                   | Causes skin irritation           |   |  |  |
| H319                   | Causes serious eye irritation    |   |  |  |
| H335                   | May cause respiratory irritation |   |  |  |
| NFPA health ha         |                                  | 3 - Materials that, under emergency conditions, can cause serious or bermanent injury.  |  |  |
| NFPA fire haza         |                                  | 1 - Materials that must be preheated before ignition can occur.   |  |  |
| NFPA reactivity        | •                                | 0 - Material that in themselves are normally stable, even under fire conditions.  |  |  |
| Hazard Rating          |                                  |   |  |  |
| Health                 | : 2                              | 2 Moderate Hazard - Temporary or minor injury may occur   |  |  |
| Flammability           | : 1<br>s                         | 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)         |  |  |
| Physical               |                                  | D 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. |  |  |

Safety Data Sheet (SDS), USA