

# 1-Bromo-4-chloro-3-fluorobenzene

Safety Data Sheet 1600F01 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/07/2019 Version: 1.0

| SECTION 1: Identification  |   |
|--|---|
| 1.1. Identification  |   |
| Product form   | : Substance   |
| Substance name   | : 1-Bromo-4-chloro-3-fluorobenzene  |
| CAS No   | : 60811-18-9  |
| Product code   | : 1600-F-01   |
| Formula  | : C6H3BrCIF   |
| Synonyms   | : 4-Bromo-1-chloro-2-fluorobenzene  |
| Other means of identification  | : MFCD00042519  |
| 1.2. Relevant identified uses of the s   | 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 saf  | fety data sheet   |
| SynQuest Laboratories, Inc.  |   |
| P.O. Box 309<br>Alachua, FL 32615 - United States of Americ  | ra l  |
| T (386) 462-0788 - F (386) 462-7097  |   |
| info@synquestlabs.com - www.synquestlabs   | s.com   |
| 1.4. Emergency telephone number  |   |
| Emergency number   | : (844) 523-4086 (3E Company - Account 10069)   |
|  |   |
| SECTION 2: Hazard(s) identificati  |   |
| 0.4 Olean official states of the second states   | or mixture  |
| 2.1. Classification of the substance Classification (GHS-US)   |   |
|  | irritation  |
| Classification (GHS-US)<br>Skin Irrit. 2 H315 - Causes skin irritation<br>Eye Irrit. 2A H319 - Causes serious eye i<br>STOT SE 3 H335 - May cause respirator   | irritation  |
| Classification (GHS-US)<br>Skin Irrit. 2 H315 - Causes skin irritation<br>Eye Irrit. 2A H319 - Causes serious eye i<br>STOT SE 3 H335 - May cause respirator<br>Full text of H-phrases: see section 16   | irritation  |
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| Classification (GHS-US)<br>Skin Irrit. 2 H315 - Causes skin irritation<br>Eye Irrit. 2A H319 - Causes serious eye i<br>STOT SE 3 H335 - May cause respirator<br>Full text of H-phrases: see section 16<br>2.2. Label elements<br>GHS-US labeling<br>Hazard pictograms (GHS-US)                         | ritation<br>ry irritation<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:   |
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| 2.3. Other hazards         No additional information available         2.4. Unknown acute toxicity (GHS US)         Not applicable         SECTION 3: Composition/information on ingredients         3.1. Substance         Substance type       : Mono-constituent         1-Bromo-4-chloro-3-fluorobenzene       (CAS No) 60811-18-9       <= 100       Skin Irrit. 2, H315         Eye irrit. 2A, H319       STOT SE 3, H335       STOT SE 3, H335         Full text of H-phrases: see section 16       3.2. Mixture         Not applicable       SECTION 4: 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, 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       : Wash with plenty of soap and water for at least 15 minutes. Remove contact lenses, if                    |  |  |  |  |  |  |
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| 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, both acute and delayed   |  |  |  |  |  |  |
| Symptoms/injuries       : 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 attention and special treatment needed  |  |  |  |  |  |  |
| Treat symptomatically.   |  |  |  |  |  |  |
| SECTION 5: Firefighting measures   |  |  |  |  |  |  |
| 5.1. Extinguishing media   |  |  |  |  |  |  |
| Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.  |  |  |  |  |  |  |
| 5.2. Special hazards arising from the substance or mixture   |  |  |  |  |  |  |
| Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Hydrogen chloride.<br>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 measures   |  |  |  |  |  |  |
| 6.1. Personal precautions, protective equipment and emergency procedures   |  |  |  |  |  |  |
| General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. 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".   |  |  |  |  |  |  |

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| Emerge | ncy procedures            | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. |
|--------|---------------------------|---|
| 6.2.   | Environmental precautions |   |

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

| 6.3. Methods and material for co    | ontainment and cleaning up  |
|-------------------------------------|---|
| For containment                     | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.  |
| Methods for cleaning up             | : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use<br>explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel<br>spills into appropriate container for disposal. Ventilate area. |
| Other information                   | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".  |
| 6.4. Reference to other sections    |   |
| No additional information available |   |
| <b>SECTION 7: Handling and sto</b>  | rage  |
| 7.1. Precautions for safe handlin   | ng  |
| Precautions for safe handling       | : Do not handle until all safety precautions have been read and understood. Ensure good   |

| Frecautions for sale framuling            | ventilation of the work station. Do not breathe fumes, mist, spray, vapors. 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 | ing any incompatibilities  |  |  |
| Technical measures                        | : Comply with applicable regulations.  |  |  |
| Storage conditions                        | : Keep container closed when not in use.   |  |  |
| Incompatible materials                    | : Refer to Section 10 on Incompatible Materials.   |  |  |
| Storage area                              | : Store in dry, cool, 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 Protection.   |
| Other information                | : Safety shoes. 29 CFR 1910.136: Foot Protection.   |
|                                  |   |

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

| 9.1. Information on basic physical an       | Information on basic physical and chemical properties |  |  |
|---|---|--|--|
| Physical state                              | : Liquid  |  |  |
| Color                                       | : No data available                                   |  |  |
| Odor  | : No data available                                   |  |  |
| Odor threshold                              | : No data available                                   |  |  |
| pH  | : No data available                                   |  |  |
| Melting point                               | : No data available                                   |  |  |
| Freezing point                              | : No data available                                   |  |  |
| Boiling point                               | : 62 - 64 °C (@ 9 mm Hg)                              |  |  |
| Flash point                                 | : >110 ℃  |  |  |
| 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                                   |  |  |

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| 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                                       | : 1.71 g/ml (@ 20 °C) |  |  |  |  |  |
| Molecular mass   | : 209.443 g/mol       |  |  |  |  |  |
| Solubility   | : No data available   |  |  |  |  |  |
| Log Pow  | : No data available   |  |  |  |  |  |
| Auto-ignition temperature  | : No data available   |  |  |  |  |  |
| Decomposition temperature  | : No data available   |  |  |  |  |  |
| Viscosity  | : No data available   |  |  |  |  |  |
| Viscosity, kinematic   | : No data available   |  |  |  |  |  |
| Viscosity, dynamic   | : No data available   |  |  |  |  |  |
| 9.2. Other information   |                       |  |  |  |  |  |
| Refractive index   | : 1.555 (@ 20 °C)     |  |  |  |  |  |
| SECTION 10: Stability and reactivity                             | y l                   |  |  |  |  |  |
| 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                                   | : 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

| SECTIC     | N 12: Ecological information  |
|------------|-------------------------------|
| 12.1.      | Toxicity                      |
| No additic | nal information available     |
| 12.2.      | Persistence and degradability |
| No additic | nal information available     |

exposure)

Aspiration hazard

: Not classified

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| 12.3.   | Bioaccumulative potential     |  |  |
|---------|-------------------------------|--|--|
| No add  | itional information available |  |  |
| 12.4.   | Mobility in soil              |  |  |
|         | itional information available |  |  |
| 110 000 |                               |  |  |
| 12.5.   | Other adverse effects         |  |  |
|         |                               |  |  |

# SECTION 13: Disposal considerations

#### Waste treatment methods 13.1.

# Waste treatment methods

Waste disposal recommendations Additional information

: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

- : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Recycle the material as far as possible.

# **Department of Transportation (DOT)**

**SECTION 14: Transport information** 

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:

| 1-Bromo-4-chloro-3-fluorobenzene | CAS No 60811-18-9 | 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

| 1-Bromo-4-chloro-3-fluorobenzene (60811-18-9)  |  |  |
|--|--|--|
| Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>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**

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| 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   |
| 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, and are not reactive with water.   |
| HMIS III           | Rating            |  |
| 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<br>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.