

3'-Bromo-4'-fluoropropiophenone Safety Data Sheet 2617BX5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/08/2016 Version: 1.0

| SECTION 1: Identification | |
|---|---|
| | |
| 1.1. Identification | . Substance |
| Product form | : Substance |
| Substance name | : 3'-Bromo-4'-fluoropropiophenone |
| CAS No | : 202865-82-5 |
| Product code | : 2617-B-X5 |
| Formula | : C9H8BrFO |
| Other means of identification | : MFCD00143012 |
| | ostance or mixture and uses advised against |
| Use of the substance/mixture | : Laboratory chemicals Manufacture of substances Scientific research and development |
| 1.3. Details of the supplier of the safety | y data sheet |
| SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com | <u>om</u> |
| 1.4. Emergency telephone number | |
| Emergency number | : (844) 523-4086 (3E Company - Account 10069) |
| SECTION 2: Hazard(s) identification | n |
| 2.1. Classification of the substance or | mixture |
| Classification (GHS-US) | |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 | |
| 2.2. Label elements | |
| GHS-US labeling Hazard pictograms (GHS-US) | |
| | GHS07 |
| Signal word (GHS-US) | : Warning |
| Hazard statements (GHS-US) | : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation |
| Precautionary statements (GHS-US) | P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area 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 |

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|---|-----------------|---|---------------------------------------|---|
| 2.3. Other hazards | | | | |
| No additional information available | | | | |
| 2.4. Unknown acute toxicity (GHS US) | | | | |
| Not applicable | | | | |
| SECTION 3: Composition/informatio | n on in | gredients | | |
| 3.1. Substance | | | | |
| Substance type | : Mono | -constituent | | |
| Name | | Product identifier | % | Classification (GHS-US) |
| 3'-Bromo-4'-fluoropropiophenone (Main constituent) | | (CAS No) 202865-82-5 | <= 100 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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 | | | | |
| First-aid measures general | | se of accident or if you feel unwell, seek i e possible). Move the affected personnel | | |
| First-aid measures after inhalation | : Rem | ove person to fresh air and keep comforta ration. Get medical advice/attention. | | |
| First-aid measures after skin contact | : Wash | with plenty of soap and water. Get med | ical advice/atter | ition. |
| First-aid measures after eye contact | | diately flush eyes thoroughly with water tent and easy to do. Continue rinsing. Get | | |
| First-aid measures after ingestion | : Do N | OT induce vomiting. Never give anything h out with water. Get medical advice/atte | by mouth to an | |
| 4.2. Most important symptoms and effect | | | | |
| 4.2. Most important symptoms and effect Symptoms/injuries | | nost important known symptoms and effe | octe are describ | ad in the labelling (see section |
| Symptoms/injunes | | and/or in section 11. | | ed in the labelling (see section |
| 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 | | ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire. | owder. Water sp | oray. Use extinguishing media |
| 5.2. Special hazards arising from the sul | bstance | or mixture | | |
| Fire hazard | | nal decomposition generates: Carbon ox | ides. Hydrogen | bromide. Hydrogen fluoride. |
| Explosion hazard | : Wher explo | n mixed with air and exposed to an ignitic de if confined. Risk of explosion if heated ng exposed containers. May form flamma | on source, dust r d under confiner | nay burn in the open air or nent. Use water spray or fog for |
| 5.3. Advice for firefighters | | | | |
| Firefighting instructions | | se of fire: Evacuate area. Fight fire remot | • | |
| Protection during firefighting | | gas tight chemically protective clothing i ratus. For further information refer to sec | | |
| SECTION 6: Accidental release meas | sures | | | |
| 6.1. Personal precautions, protective eq | | | | |
| General measures | | uate unnecessary personnel. Ensure ade he gas, fumes, vapor or spray. | equate air ventila | ation. Do not breathe dust. Do not |
| 6.1.1. For non-emergency personnel | | | | |
| Emergency procedures | : Only | qualified personnel equipped with suitabl | e protective equ | upment may intervene. |
| 6.1.2. For emergency responders | | | | |
| Protective equipment | | ot attempt to take action without suitable to section 8: "Exposure controls/persona | | ment. For further information |

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| Emergency procedures | : Avoid raising dust. Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition. |
|---|---|
| 6.2. Environmental precautions | |
| Avoid release to the environment. Notify author | ities if product enters sewers or public waters. |
| 6.3. Methods and material for containm | ent 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". |
| 6.4. Reference to other sections | |
| No additional information available | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Additional hazards when processed | : When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Handle empty containers with care because residual vapors are flammable. |
| 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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. |
| 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, includ | ing any incompatibilities |
| Technical measures | : Comply with applicable regulations. |
| Storage conditions | : Keep container closed when not in use. Keep away from ignition sources. |
| ncompatible 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**

0.0

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 or | n basic physical and chemical properties |
|---------------------|--|
| Physical state | : Solid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : 58 - 61 °C |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| | |

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| 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 |
| Relative vapor density at 20 °C | : No data available |
| Molecular mass | : 231.06 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

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| 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 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 I | bases. Strong oxidizing agents. |
| 10.6. | Hazardous decomposition products |
| | normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5. |

| SECTION | ON 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 |

| SECTION 12: Ecological inf | ormation | |
|-------------------------------------|----------|-----|
| 12.1. Toxicity | | |
| No additional information available | | |
| 10/00/0010 | | 1/0 |

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| 12.2. | Persistence and degradability | | | |
|-------------------------------------|-------------------------------------|--|--|--|
| No addit | No additional information available | | | |
| 12.3. | Bioaccumulative potential | | | |
| No addit | 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 considerat | ions |
|--|---|
| 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 | on |

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:

| 3'-Bromo-4'-fluoropropiophenone | CAS No 202865-82-5 | 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 text of H-phras | : | |
|---|--|--|
| Eye Irrit. 2 | 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 | H315 Causes skin irritation | |
| H319 | H319 Causes serious eye irritation | |
| H335 | May cause respiratory irritation | |
| NFPA health hazar | : 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 | 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) | |
| 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 HazCo | 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.