

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 1700B1K Issue date: 4/17/2023 Version: 1.0

| SECTION 1: Identification | |
|--|---|
| 1.1. Identification | |
| Product form Substance name CAS-No. Product code Formula Other means of identification | Substance 3-Bromobenzyl fluoride 456-43-9 1700-B-1K C7H6BrF MFCD25963568 |
| 1.2. Recommended use and restrictions o | n use |
| Use of the substance/mixture | : Laboratory chemicals Manufacture of substances Scientific research and development |
| 1.3. Supplier | |
| SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 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 | cture |
| GHS US classification Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Specific target organ toxicity – Single exposure, Ca Respiratory tract irritation Full text of H statements : see section 16 | H314 Causes severe skin burns and eye damage H318 Causes serious eye damage ategory 3, H335 May cause respiratory irritation |
| 2.2. GHS Label elements, including preca | utionary statements |
| GHS US labeling Hazard pictograms (GHS US) | |
| Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) | Danger H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation P260 - Do not breathe fumes, mist, spray, vapors. 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. |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing 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

| | 2.3.0 | Other hazard | s which do | not result in | classification |
|--|-------|--------------|------------|---------------|----------------|
|--|-------|--------------|------------|---------------|----------------|

Other hazards which do not result in classification : Lachrymator.

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 |
|--|--------------------|---|--|
| 3-Bromobenzyl fluoride (Main constituent) | CAS-No.: 456-43-9 | | Skin Corr. 1B, H314 Eye Dam. 1, H318 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 immediate medical advice/attention. |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate 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 immediate 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 immediate medical advice/attention. |
| 4.2. Most important symptoms and effect | ts (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. |
| Symptoms/effects after inhalation | : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

| SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media | | | |
|---|---|--|--|
| | | | |
| 5.2. Specific hazards arising from the chen | nical | | |
| Fire hazard Explosion hazard | Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Hydrogen fluoride. Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. | | |
| 5.3. Special protective equipment and prec | autions for fire-fighters | | |
| Firefighting instructions Protection during firefighting | In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. 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 | 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". | | | |
| Emergency procedures | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. | | | |

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

| 6.3. Methods and material for containment 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 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

6.2. Environmental precautions

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| SECTION 7: Handling and storage | | | |
|--|---|--|--|
| 7.1. 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. 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 an | ny incompatibilities | | |
| Storage conditions | Comply with applicable regulations. Keep container closed when not in use. Refer to Section 10 on Incompatible Materials. Store in dry, cool, well-ventilated area. Light sensitive. | | |

SECTION 8: Exposure controls/personal protection

| 3-Bromobenzyl fluoride (456-43-9) | |
|---------------------------------------|--|
| 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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and 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 | : 83 °C (@ 13 mm Hg) |
| 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 |
| Density | : 1.545 g/ml (@ 20 °C) |
| Molecular mass | : 189.025 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. Moisture.

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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

| 11.1. Information on toxicological e | ffects |
|--------------------------------------|---|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Causes severe skin burns. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| 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. |
| Symptoms/effects after inhalation | : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. |

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 | 2.4. | Mo | bilit | v in | soil |
|----|------|----|-------|----------|------|
| _ | | | | y | |

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods Waste treatment methods : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Product/Packaging 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

14.1. UN number

Not regulated for transport

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 14.2. UN proper shipping name | | | | |
|---|--|--|--|--|
| Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) | Not applicable Not applicable Not applicable Not applicable Not applicable | | | |
| 14.3. Transport hazard class(es) | | | | |
| DOT Transport hazard class(es) (DOT) | : Not applicable | | | |
| TDG Transport hazard class(es) (TDG) | : Not applicable | | | |
| IMDG Transport hazard class(es) (IMDG) | : Not applicable | | | |
| IATA 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 Not applicable Not applicable Not applicable Not applicable | | | |
| 14.5. Environmental hazards | | | | |
| Other information | : No supplementary information available. | | | |
| 14.6. Special precautions for user | | | | |
| DOT No data available | | | | |
| TDG No data available | | | | |
| IMDG No data available | | | | |
| IATA No data available | | | | |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | | | |
| 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: | | | | |

| 3-Bromobenzyl fluoride | CAS-No. 456-43-9 | 100% |
|------------------------|------------------|------|

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Full text of H-phrases | | | |
|--|---|---|--|
| H314 | Causes severe skin burns and eye damage | | |
| H318 | Causes serious eye damage | | |
| H335 | May cause respiratory irritation | | |
| NFPA health hazard NFPA fire hazard | | 3 - Materials that, under emergency conditions, can cause serious or permanent injury. 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 | : | 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given | |
| 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. | |

Safety Data Sheet (SDS), USA

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