

Safety Data Sheet 1700319 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/21/2019 Version: 1.0

| 1.1. Identification | | |
|--|--|--|
| Product form | : Substance | |
| Substance name | : 1-Fluoro-2,4,6-trimethylbenzene | |
| CAS No | : 392-69-8 | |
| Product code | : 1700-3-19 | |
| Formula | : C9H11F | |
| Synonyms | : 2,4,6-Trimethylfluorobenzene; 2-Fluoromesitylene | |
| Other means of identification | : MFCD00052365 | |
| 1.2. Relevant identified uses of the su | ubstance 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 safe | ety 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. | | |
| 1.4. Emergency telephone number | | |
| Emergency number | : (844) 523-4086 (3E Company - Account 10069) | |
| SECTION 2: Hazard(s) identificati | on | |
| SECTION 2: Hazard(s) identification 2.1. Classification of the substance of | | |
| 2.1. Classification of the substance of | of mixture | |
| Skin Irrit. 2H315 -Causes skin irritationEye Irrit. 2AH319 -Causes serious eye irSTOT SE 3H335 -May cause respiratory | ritation y irritation | |
| Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irSTOT SE 3H335 - May cause respiratoryAsp. Tox. 1H304 - May be fatal if swallowFull text of H-phrases: see section 16 | ritation y irritation | |
| Eye Irrit. 2AH319 - Causes serious eye irSTOT SE 3H335 - May cause respiratoryAsp. Tox. 1H304 - May be fatal if swallowFull text of H-phrases: see section 162.2.Label elements | ritation y irritation | |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Asp. Tox. 1 H304 - May be fatal if swallow Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling | ritation y irritation | |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Asp. Tox. 1 H304 - May be fatal if swallow Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) | ritation y irritation wed and enters airways : $\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$ | |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Asp. Tox. 1 H304 - May be fatal if swallow Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) | ritation wed and enters airways | |
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| | 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P331 - Do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant |
|--------------------------------------|--|
| | |
| 2.3. Other hazards | |
| No additional information available | |
| 2.4. Unknown acute toxicity (GHS US) | |
| Not applicable | |
| SECTION 3: Composition/informatio | n on ingredients |
| 3.1. Substance | |
| Substance type | : Mono-constituent |

| Name | Product identifier | % | Classification (GHS-US) |
|---|--------------------|--------|--|
| 1-Fluoro-2,4,6-trimethylbenzene (Main constituent) | (CAS No) 392-69-8 | <= 100 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 |

Full text of H-phrases: see section 16 3.2 Mixturo

| 3.2. | Mixture | | |
|-----------|-------------------------------------|----|---|
| Not appl | licable | | |
| SECTI | ON 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. 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 effects | s, | both acute and delayed |
| Symptor | ms/injuries | : | The most important known symptoms and effects are described in the labelling (see section |

2.2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed 4.3.

Treat symptomatically.

| SECT | ION 5: Firefighting measures | | | |
|----------|-------------------------------------|--|---|-------------|
| 5.1. | Extinguishing media | | | |
| Suitable | extinguishing media | : Alcohol resistant foam. Carbo appropriate for surrounding f | on dioxide. Dry powder. Water spray. Use extinguis re. | shing media |
| 5.2. | Special hazards arising from the su | ubstance or mixture | | |
| Fire haz | zard | : Thermal decomposition gene | rates: Carbon oxides. Hydrogen fluoride. | |
| Explosio | on hazard | | nder confinement. Use water spray or fog for coolir ble/explosive vapor-air mixture. | ig exposed |
| 5.3. | Advice for firefighters | | | |
| Firefigh | ting instructions | : In case of fire: Evacuate area | a. Fight fire remotely due to the risk of explosion. | |
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| 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 m | easures |
| 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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition. |
| 6.2. Environmental precautions | |
| Avoid release to the environment. Notify auth | norities if product enters sewers or public waters. |
| 6.3. Methods and material for contair | nment 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 | |
| SECTION 7: Handling and storage |) |
| 7.1. Precautions for safe handling | |
| Additional hazards when processed | : 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 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, include | uding 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/pe | ersonal 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. |
| | |

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| SECTION 9: Physical and chemica | properties |
|--|--|
| 9.1. Information on basic physical and | I chemical properties |
| Physical state | : Liquid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : -37 °C |
| Freezing point | : No data available |
| Boiling point | : 163 - 165 °C |
| 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 |
| Relative vapor density at 20 °C | : No data available |
| Specific gravity / density | : 0.9745 g/ml (@ 20 °C) |
| Molecular mass | : 138.182 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 | : 1.484 (@ 20 °C) |
| | . 1.404 (@ 20 0) |
| SECTION 10: Stability and reactivity | ty in the second se |
| 10.1. Reactivity | |
| No additional information available | |
| 10.2. Chemical stability | |
| The product is stable at normal handling and s | 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 produc | ts |
| Under normal conditions of storage and use, h | azardous decomposition products should not be produced. Hazardous decomposition products in case of |
| fire, see Section 5. | |
| SECTION 11: Toxicological inform | ation |
| 11.1. Information on toxicological effec | ts |
| | |
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
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| 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 | : May be fatal if swallowed and enters airways. |
| | |

| 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 consideratio | ns |
|-----------------------------------|---|
| 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 Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : UN1993 Flammable liquids, n.o.s., 3, III
- : UN1993
- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242
- : G Identifies PSN requiring a technical name

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| DOT Special Provisions (49 CFR 172.102) | B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal |
|---|--|
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| Other information | : No supplementary information available. |
| TDG | |
| No additional information available | |
| Transport by sea | |
| UN-No. (IMDG) | : 1993 |
| Proper Shipping Name (IMDG) | : FLAMMABLE LIQUID, N.O.S. |
| Class (IMDG) | : 3 - Flammable liquids |
| Packing group (IMDG) | : III - substances presenting low danger |
| Air transport | |
| UN-No. (IATA) | : 1993 |
| Proper Shipping Name (IATA) | : Flammable liquid, n.o.s. |
| Class (IATA) | : 3 - Flammable Liquids |
| Packing group (IATA) | : III - Minor Danger |
| SECTION 15: Regulatory information | |
| 15.1. US Federal regulations | |
| | cluded from listing, on the United States Environmental Protection Agency Toxic |

Substances Control Act (TSCA) inventory except for:

| 1-Fluoro-2,4,6-trimethylbenzene | CAS No 392-69-8 | 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

1-Fluoro-2,4,6-trimethylbenzene (392-69-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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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 and/or reproductive harm

SECTION 16: Other information

| Asp. Tox. 1 | Aspiration hazard Category 1 | |
|---------------------------|---|--|
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A | |
| Flam. Liq. 3 | Flammable liquids Category 3 | |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 | |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 | |
| H226 | Flammable liquid and vapor | |
| H304 | May be fatal if swallowed and enters airways | |
| H315 | Causes skin irritation | |
| H319 | Causes serious eye irritation | |
| H335 | May cause respiratory irritation | |
| NFPA fire hazard | 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. | |
| | | |
| HMIS III Rating | | |
| HMIS III Rating Health | : 2 Moderate Hazard - Temporary or minor injury may occur | |
| 0 | 2 Moderate Hazard - Temporary or minor injury may occur 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) | |

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.