

(S)-1-[3,5-Bis(trifluoromethyl)phenyl]ethylamine Safety Data Sheet 38303S1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/24/2015 Revision date: 04/18/2016 Version: 1.1

| SECTION 1: Identification | |
|--|---|
| 1.1. Identification | |
| Product form | : Substance |
| Substance name | : (S)-1-[3,5-Bis(trifluoromethyl)phenyl]ethylamine |
| CAS No | : 127733-40-8 |
| Product code | : 3830-3-S1 |
| Formula | : C10H9F6N |
| Synonyms | : S-MBT-PEM |
| Other means of identification | : MFCD03093013 |
| 1.2. Relevant identified uses of the | substance 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 sa | afety data sheet |
| SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlab</u> | |
| 1.4. Emergency telephone number | |
| Emergency number | : (844) 523-4086 (3E Company - Account 10069) |
| SECTION 2: Hazard(s) identificat | tion |
| 2.1. Classification of the substance | |
| Classification (GHS-US) | |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye | irritation |
| Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirato | irritation |
| Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements | irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling | irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements | irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) | irritation bry irritation : : : : : : : : : : : : : : : : : : : |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) | irritation bry irritation : irritation : irritation : irritation : H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation |

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

- 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 container tightly closed P403+P235 - 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

Unknown acute toxicity (GHS US) 2.4.

Not applicable

| 3.1. Substance | | | | |
|--|--------------|--|---------------------------------------|---|
| Substance type | : Mor | no-constituent | | |
| Name | | Product identifier | % | Classification (GHS-US) |
| (S)-1-[3,5-Bis(trifluoromethyl)phenyl]ethylamine (Main constituent) | | (CAS No) 127733-40-8 | <= 100 | Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |
| Full text of H-phrases: see section 16 | | | I | |
| 3.2. Mixture | | | | |
| Not applicable | | | | |
| SECTION 4: First aid measures | | | | |
| 4.1. Description of first aid measures | \$ | | | |
| First-aid measures general | | ase of accident or if you feel unw ere possible). Move the affected p | | |
| First-aid measures after inhalation | | nove person to fresh air and keep piration. Get medical advice/atter | | thing. If not breathing, give artificial |
| First-aid measures after skin contact | | sh with plenty of soap and water. | | |
| First-aid measures after eye contact | | nediately flush eyes thoroughly w sent and easy to do. Continue rin | | 5 minutes. Remove contact lenses, i ice/attention. |
| First-aid measures after ingestion | : Do moi | NOT induce vomiting. Never give uth out with water. Get medical a | anything by mouth to dvice/attention. | an unconscious person. Rinse |
| 4.2. Most important symptoms and e | ffects, bot | h acute and delayed | | |
| Symptoms/injuries | | e most important known symptom) and/or in section 11. | s and effects are desc | ribed in the labelling (see section |
| 4.3. Indication of any immediate med | dical attent | ion and special treatment need | ed | |
| Treat symptomatically. | | | | |
| SECTION 5: Firefighting measure | s | | | |
| 5.1. Extinguishing media | 0 | | | |
| Suitable extinguishing media | | ohol resistant foam. Carbon dioxi | de. Dry powder. Wate | r spray. Use extinguishing media |
| 5.2. Special hazards arising from the | substance | e or mixture | | |
| Fire hazard | | ermal decomposition generates: C | Carbon oxides. Hydrog | en fluoride. Nitrogen oxides. |
| Explosion hazard | : Risl | k of explosion if heated under cor tainers. May form flammable/exp | nfinement. Use water s | spray or fog for cooling exposed |
| 5.3. Advice for firefighters | | | | |
| Firefighting instructions | : In c | ase of fire: Evacuate area. Fight | fire remotely due to th | e risk of explosion. |
| Protection during firefighting | | ar gas tight chemically protective aratus. For further information re | | n with self contained breathing sure controls/personal protection". |
| | easures | | | |
| SECTION 6: Accidental release m | | t and emergency procedures | | |
| | a equinmen | and onlongeney procedures | naura adaguata air va | ntilation. Do not breathe gas fumes |
| | : Eva | icuate unnecessary personnel. E or or spray. | risure adequate all ve | nination. Do not broatilo gao, famoo, |
| 6.1. Personal precautions, protective General measures | : Eva | | nsule adequate all ve | |
| | : Eva vap | | | |

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

| 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 aut | thorities if product enters sewers or public waters. |
| 6.3. Methods and material for conta | inment 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 storag | ie |
| 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, inc | luding any incompatibilities |
| Technical measures | : Comply with applicable regulations. |
| Storage conditions | : Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas. |
| Incompatible materials | : Refer to Section 10 on Incompatible Materials. |
| Storage area | : Store in dry, cool, well-ventilated area. |
| SECTION 8: Exposure controls/p | 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 ch | nemical properties |
| 9.1. Information on basic phys | sical and chemical properties |
| Physical state | : Liquid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | · No data available |

Odor threshold : No data available pН : No data available

Melting point : No data available

(S)-1-[3,5-Bis(trifluoromethyl)phenyl]ethylamine Safety Data Sheet

| Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday | , March 26, 2012 / Rules and Regulations |
|---|--|
| Freezing point | : No data available |
| Boiling point | : 60 °C (@ 14 mm Hg) |
| Flash point | : 66 °C |
| 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 | : 1.1 g/ml (@ 20 °C) |
| Molecular mass | : 257.18 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 | |
| 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 sto | prage conditions. |
| 10.3. Possibility of hazardous reactions | |
| No additional information available | |
| | |
| 10.4. Conditions to avoid | |
| No additional information available | |
| 10.5. Incompatible materials | |
| Acids. Acid chlorides. Acid anhydrides. Carbon o | dioxide. Strong oxidizing agents. |
| 10.6. Hazardous decomposition products | 3 |
| Under normal conditions of storage and use, ha | zardous decomposition products should not be produced. Hazardous decomposition products in case of |
| fire, see Section 5. | |
| SECTION 11: Toxicological informat | lion |
| 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 |

exposure)

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

| Potential Adverse human health effects and symptoms | : Overexposure to this material may result in methemoglobinemia. Cyanosis may occur (lips and fingernails turn blue). |
|---|---|
| SECTION 12: Ecological informat | ion |
| 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 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 | |
| Transport document description | : NA1993 Combustible liquid, n.o.s., 3, III |

| Transport document description | : NA1993 Combustible liquid, n.o.s., 3, III | |
|--|---|--|
| UN-No.(DOT) | : NA1993 | |
| Proper Shipping Name (DOT) | : Combustible liquid, n.o.s. | |
| Transport hazard class(es) (DOT) | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 | |
| Packing group (DOT) | : III - Minor Danger | |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 | |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 | |
| DOT Symbols | : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name | |
| DOT Special Provisions (49 CFR 172.102) | IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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). T1 - 1.5 178.274(d)(2) Normal | |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 | |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L | |
| 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 | | |

TDG

No additional information available

Safety Data Sheet

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

Transport by sea

No additional information available

Air transport

No additional information available

| | SECTION 15: Regulator | ry 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:

| (S)-1-[3,5-Bis(trifluoromethyl)phenyl]ethylamine | CAS No 127733-40-8 | 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

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

: 04/18/2016

Full text of H-phrases:

Revision date

| 1 011 107 | a of ff philaboo. | |
|-----------|--|---|
| | Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| | Flam. Liq. 4 | Flammable liquids Category 4 |
| | Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| | STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| | H227 | Combustible liquid |
| | H315 | Causes skin irritation |
| | H319 | Causes serious eye irritation |
| | H335 | May cause respiratory irritation |
| NFPA | health hazard fire hazard reactivity | 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |
| HMIS I | III Rating | |
| Health | - | : 2 Moderate Hazard - Temporary or minor injury may occur |
| | | : 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) |
| Physic | al | : 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 | S (GHS HazCom 2012) | |
| | | |

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

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.