

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 8H69394 Issue date: 14.07.2023 Revision date: 18.12.2023 Version: 1.1

SECTION 1: Identification 1.1. Identification Product form ÷ Substance Substance name N-Morpholinium nonafluorobutanesulfonate : CAS-No. 503155-89-3 : : 8H69-3-94 Product code Formula : C8H10F9NO4S Synonyms : N-Morpholinium nonaflate Other means of identification : MFCD03094228 1.2. Recommended use and restrictions on 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 : (844) 523-4086 (3E Company - Account 10069) Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** Not classified 2.2. GHS Label elements, including precautionary statements **GHS US labeling** No labeling applicable 2.3. Other hazards which do not result in classification No additional information available 2.4. Unknown acute toxicity (GHS US) No additional information available SECTION 3: Composition/Information on ingredients 3.1. Substances : Mono-constituent Substance type

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| Name | Product identifier | % | GHS US classification |
|--|--------------------------|-----|-----------------------|
| N-Morpholinium nonafluorobutanesulfonate (Main constituent) | CAS-No.: 503155-89- 3 | 100 | Not classified |
| 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

No additional information available

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

No additional information available

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Notify authorities if product enters sewers or public waters. Contain any spills with dikes or absorbents to prevent migration and entry into drains, sewers, waterways, or soil. Do not use where release to drains (sewer) and/or surface water cannot be prevented.

6.3. Methods and material for containment and cleaning up

For containment

: Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into drains, sewers, waterways, or soil. Do not use where release to drains (sewer) and/or surface water cannot be prevented.

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| 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

No additional information available

| 7.2. Conditions for safe storage, incl | uding any incompatibilities |
|--|--|
| Storage area | : Store in dry, cool, well-ventilated area. Store ONLY in areas where release to dra |

Store in dry, cool, well-ventilated area. Store ONLY in areas where release to drains (sewer) and/or surface water can be prevented. This material is considered to be a "Forever chemical". Any possible release to the environment must be prevented. Notify authorities if product enters sewers or public waters.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

N-Morpholinium nonafluorobutanesulfonate (503155-89-3)

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : | No data available |
|---|---|-------------------|
| 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 | : | No data available |
| 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 |
| Molecular mass | : | 387,22 g/mol |
| Solubility | : | No data available |
| | | |

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| 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 | |
| No additional information available | |
| 10.3. Possibility of hazardous reactions | |
| No additional information available | |
| 10.4. Conditions to avoid | |
| No additional information available | |
| 10.5. Incompatible materials | |
| No additional information available | |
| 10.6. Hazardous decomposition products | |
| No additional information available | |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Acute toxicity (oral) | : Not classified |
|-----------------------------------|---------------------|
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |

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| SECTION 12: Ecological information | | | |
|-------------------------------------|---|--|--|
| 12.1. Toxicity | | | |
| No additional information available | | | |
| 12.2. Persistence and degradability | | | |
| N-Morpholinium nonafluorobutanesu | ulfonate (503155-89-3) | | |
| Persistence and degradability | Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic. | | |
| 12.3. Bioaccumulative potential | | | |
| N-Morpholinium nonafluorobutanesu | ulfonate (503155-89-3) | | |
| Bioaccumulative potential | Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established. | | |
| 12.4. Mobility in soil | | | |
| No additional information available | | | |
| 12.5. Other adverse effects | | | |
| No additional information available | | | |
| | | | |
| SECTION 13: Disposal consideration | tions | | |

| 13.1. Disposal methods | |
|--|---|
| Waste treatment methods | : Prevent runoff from entering drains, sewers or waterways. See the EPA's Interim Guidance on PFAS Destruction and Disposal. |
| Sewage disposal recommendations | : See the EPA's Interim Guidance on PFAS Destruction and Disposal. |
| Product/Packaging disposal recommendations | : See the EPA's Interim Guidance on PFAS Destruction and Disposal. |
| Additional information | : EPA's Interim Guidance on PFAS Destruction and Disposal (Dec. 18, 2020 |
| | https://downloads.regulations.gov/EPA-HQ-OLEM-2020-0527-0002/content.pdf). The National Defense Authorization Act for Fiscal Year 2020, Public Law No: 116-92 (hereafter, "FY 2020 NDAA"), was signed into law on December 19, 2019. Section 7361 of the FY 2020 NDAA directs the U.S. Environmental Protection Agency (EPA) to publish interim guidance on the destruction and disposal of perfluoroalkyl and polyfluoroalkyl substances (PFAS) and materials containing PFAS. This interim guidance fulfills that direction. EPA will review the interim guidance at least every 3 years and revise it, if appropriate based on the availability of new information or other factors. |
| Ecology - waste materials | : This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response. |

| SECTION 14: Transport info | ormation | |
|---|--|--|
| 14.1. UN number | | |
| DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA) | Not applicableNot applicableNot applicableNot applicableNot applicable | |

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| 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 |
| 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 |
| 14.5. Environmental hazards | |
| Other information | : No supplementary information available. |
| 14.6. Special precautions for user | |
| DOT Not applicable | |
| TDG Not applicable | |
| IMDG Not applicable | |
| IATA Not applicable | |
| 14.7. Transport in bulk according to Ani | nex II of MARPOL 73/78 and the IBC Code |
| Not applicable | |
| SECTION 15: Regulatory informatio | n |
| 15.1. US Federal regulations | |
| All components of this product are present and (TSCA) inventory, except for: | listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act |
| | |

| N-Morpholinium nonafluorobutanesulfonate | CAS-No. 503155-89-3 | 100% |
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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

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Safety Data Sheet (SDS), USA