

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 6164200

Issue date: 2/21/2024 Version: 1.0

# **SECTION 1: Identification**

### 1.1. Identification

Product form : Substance

Substance name : Sodium perfluoroethanesulfonate

CAS-No. : 2923-21-9
Product code : 6164-2-00
Formula : C2F5NaO3S

Synonyms : Sodium pentafluoroethanesulfonate

### 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

Emergency number : (844) 523-4086 (3E Company - Account 10069)

# **SECTION 2: Hazard(s) identification**

# 2.1. Classification of the substance or mixture

# **GHS US classification**

Skin corrosion/irritation Category 2

H315

Causes skin irritation

Specific target organ toxicity – Single exposure, Category 3,

H319

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

Respiratory tract irritation

Full text of H statements : see section 16

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

Hazard pictograms (GHS US) :



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, mist, spray.
P264 - Wash skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area.

# Safety Data Sheet

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

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.

P337+P313 - If eye irritation persists: 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

### 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

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
Sodium perfluoroethanesulfonate (Main constituent)	CAS-No.: 2923-21-9		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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

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

Suitable extinguishing media

: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.

2/21/2024 (Issue date) EN (English US) 2/8

# Safety Data Sheet

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

### 5.2. Specific hazards arising from the chemical

Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Sulfur oxides. Sodium oxides.

# 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : In case of fire: Evacuate area.

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 measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.

6.1.1. For non-emergency personnel

: Only qualified personnel equipped with suitable protective equipment may intervene. **Emergency procedures** 

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".

### 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.

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

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, mist, spray. Wear personal protective

equipment. Avoid contact with skin and eyes.

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, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.

Incompatible materials Refer to Section 10 on Incompatible Materials.

2/21/2024 (Issue date) EN (English US) 3/8

# Safety Data Sheet

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

Storage area

: 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

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.

### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Color No data available No data available Odor Odor threshold No data available No data available рΗ 370 - 390 °C Melting point Freezing point : No data available : No data available Boiling point 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

2/21/2024 (Issue date) EN (English US) 4/8

# Safety Data Sheet

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

Relative density : No data available Molecular mass : 222.06 g/mol Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature : No data available Viscosity, kinematic 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.

### 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.

# **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 : 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

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified Aspiration hazard : Not classified

# Safety Data Sheet

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

Viscosity, kinematic : No data available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

# Sodium perfluoroethanesulfonate (2923-21-9) Persistence and degradability Not readily biodegradable. May cause long-term adverse effects in the environment. PBT Persistent, Bioaccumulative and Toxic.

# 12.3. Bioaccumulative potential

Sodium perfluoroethanesulfonate (2923-21-9)		
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 considerations**

### 13.1. Disposal methods

Waste treatment methods

Sewage disposal recommendations Product/Packaging disposal recommendations

:

PFAS Destruction and Disposal.

: See the EPA's Interim Guidance on PFAS Destruction and Disposal.

: See the EPA's Interim Guidance on PFAS Destruction and Disposal.

: 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

Prevent runoff from entering drains, sewers or waterways. See the EPA's Interim Guidance on

factors.

**Ecological information** 

Additional information

: 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 information**

# 14.1. UN number

DOT NA No : Not applicable

2/21/2024 (Issue date) EN (English US) 6/8

# Safety Data Sheet

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

UN-No. (TDG) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable

# 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

# 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

MDG

Transport hazard class(es) (IMDG) : Not applicable

**IATA** 

Transport hazard class(es) (IATA) : Not applicable

# 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : 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 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:

Sodium perfluoroethanesulfonate CAS-No. 2923-21-9 100%

# 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		
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or

permanent injury.

NFPA fire hazard 0 - Materials that will not burn under typical fire conditions, including

intrinsically noncombustible materials such as concrete, stone, and

NFPA reactivity 0 - Material that in themselves are normally stable, even under fire

conditions.

Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT Physical

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

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.