

SAFETY DATA SHEET

Date Printed: 05/29/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifier: (4N) 99.99% Sodium 3-nitrobenzenesulfonate

Product Code: NA-3NBZSNT-04

CAS Number: 127-68-4

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351
Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation: Category 2

Skin Sensitization: Category 1

Label Elements

Signal Word:

Warning

Hazard Statements:

May cause an allergic skin reaction

Causes serious eye irritation



Precautionary Statements

Prevention:

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Skin:

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Disposal:

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: m-Nitrobenzenesulfonic acid, sodium salt

CAS-No: 127-68-4

Weight: 99%

SECTION 4. FIRST AID MEASURES

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation:

Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration.

Ingestion:

Clean mouth with water. Get medical attention.

Most important symptoms and effects:

May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician:

Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media: No information available

Flash Point > 100 °C / > 212 °F

Method - No information available

Autoignition Temperature:
355 °C / 671 °F

Explosion Limits:
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical:
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products:
Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Sulfur oxides

Protective Equipment and Precautions for Firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA
Health
2
Flammability
1
Instability
1
Physical hazards
N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions:
See Section 12 for additional ecological information.

Methods for Containment and Clean Up:
Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling:
Avoid contact with skin and eyes. Do not breathe dust.

Storage:
Keep in a dry, cool and well-ventilated place. Keep container tightly closed

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures:

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection:

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder Solid

Appearance Light yellow

Odor Odorless

Odor Threshold No information available

pH 6-10 1% aq.sol

Melting Point/Range 350 °C / 662 °F

Boiling Point/Range No information available

Flash Point > 100 °C / > 212 °F

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity No information available

Solubility No information available

Partition coefficient; n-octanol/water No data available

Autoignition Temperature 355 °C / 671 °F

Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula C6 H4 N Na O5 S

Molecular Weight 225.15

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard:

None known, based on information available

Stability:

Hygroscopic.

Conditions to Avoid:

Incompatible products. Exposure to moist air or water.

Incompatible Materials:

Strong oxidizing agents, Metals, copper

Hazardous Decomposition Products:

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Sulfur oxides

Hazardous Polymerization:

No information available.

Hazardous Reactions:

None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component: m-Nitrobenzenesulfonic acid, sodium salt

LD50 Oral: LD50 = 11 g/kg (Rat)

LD50 Dermal: Not listed

LC50 Inhalation: LC50 > 5.1 mg/L (Rat) 4h

m-Nitrobenzenesulfonic acid, sodium salt

Toxicologically Synergistic Products:

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: No information available

Sensitization: May cause sensitization by skin contact

Carcinogenicity

Component: m-Nitrobenzenesulfonic acid, sodium salt

CAS-No: 127-68-4

IARC Not listed

NTP Not listed

ACGIH Not listed

OSHA Not listed

Mexico Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure: None known

STOT - repeated exposure: None known

Aspiration hazard: No information available

Symptoms / effects, both acute and delayed:

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information:

No information available

Other Adverse Effects:

The toxicological properties have not been fully investigated

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Component: m-Nitrobenzenesulfonic acid, sodium salt

Freshwater Algae: EC50: > 500 mg/L, 72h (*Desmodesmus subspicatus*)

Freshwater Fish: LC50: > 500 mg/L, 96h (*Leuciscus idus*)

LC50: < 1350 mg/L, 24h static (*Lepomis macrochirus*)

Microtox: EC50 > 10000 mg/L 17 h

Water Flea: LC50: = 8665 mg/L, 48h (*Daphnia magna*)

Persistence and Degradability:

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation:

No information available.

Mobility:

Will likely be mobile in the environment due to its water solubility

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

SECTION 15. REGULATORY INFORMATION

Component:

TSCA: X

DSL: X

NDSL: -

EINECS: 204-857-3

ELINCS: -

NLP

PICCS: X

ENCS: X

AICS: X

IECSC: X

KECL: X

U.S. Federal Regulations

TSCA 12(b):

Section 4

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals. Other International Regulations

Mexico - Grade No information available.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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 applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.