

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Nitrobenzene Sulfonic Acid, Sodium Salt
CAS number	127-68-4
Synonyms	Benzenesulfonic Acid; Ludigo

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious Eye Damage/Eye Irritation Category 2  
Skin Sensitization Category 1

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

May cause an allergic skin reaction  
Causes serious eye irritation

Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
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.  
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.  
Dispose of contents/container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	CAS number	Concentration
m-Nitrobenzenesulfonic acid, sodium salt	127-68-4	100%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice**

If symptoms persist, call a physician.

**If inhaled**

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

**In case of skin contact**

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**In case of eye contact**

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

**If swallowed**

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable. 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.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

**Unsuitable extinguishing media** No information available

#### 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition. Combustion can create: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

#### 5.3 Special 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.

#### 5.4 Further information

**Flash Point** > 100 °C / > 212 °F

**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

##### NFPA

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### 6.2 Environmental precautions

Should not be released into the environment.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

No additional information.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Metals. copper.

##### **Incompatibilities**

Strong oxidizing agents, Metals, copper.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Occupational exposure limits**

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

#### **8.2 Exposure controls**

##### **Appropriate engineering controls**

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 protection**

Wear appropriate protective gloves to prevent skin exposure.

###### **Body Protection**

Wear appropriate protective clothing to prevent skin exposure.

**Respiratory protection**

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN149.

**Control of environmental exposure**

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties****9.1 Information on basic 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
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	355 °C / 671 °F
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	C <sub>6</sub> H <sub>4</sub> NO <sub>5</sub> SNa
Molecular Weight	225.15
VOC Content(%)	No information available
Oxidizing properties	No information available

**9.2 Other safety information**

No information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

None known, based on information available.

**10.2 Chemical stability**

Hygroscopic.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Exposure to moist air or water.

### 10.5 Incompatible materials

Strong oxidizing agents, Metals, copper

### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
m-Nitrobenzenesulfonic acid, sodium salt	LD50 = 11 g/kg (Rat)	Not listed	LC50 > 5.1 mg/L (Rat) 4 h

##### Skin corrosion/irritation

No information available.

##### Serious eye damage/eye irritation

No information available.

##### Respiratory or skin sensitization

No information available.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico

##### Specific target organ toxicity - single exposure

None known.

##### Specific target organ toxicity - repeated exposure

None known.

##### Reproductive toxicity

No information available.

**Chronic effects**

No information available.

**11.2 Additional Information**

The toxicological properties have not been fully investigated.

**SECTION 12: Ecological information****12.1 Toxicity**

Component	Freshwater	Freshwater Fish	Microtox	Water Flea
m-Nitrobenzenesulfonic acid, sodium salt	EC50: > 500 mg/L, 72h (Desmodesmus subspicatus)	Not listed	EC50 > 10000 mg/L 17 h	LC50: = 8665 mg/L, 48h (Daphnia magna)

**12.2 Persistence and degradability**

Persistence is unlikely.

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

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

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1 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 (US)**

UN Number Not regulated

Proper Shipping name Not regulated

Hazard Class	None
Packaging Group	Not regulated
Technical name	Nitrobenzene Sulfonic Acid, Sodium Salt

#### **IMDG**

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated
Technical name	Nitrobenzene Sulfonic Acid, Sodium Salt

#### **IATA**

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated
Technical name	Nitrobenzene Sulfonic Acid, Sodium Salt

### **SECTION 15: Regulatory information**

#### **US federal regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not listed.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
Not listed.

**SARA 313 (TRI reporting)**  
Not listed.

#### **Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**



Not listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed.

**Safe Drinking Water Act**

Not listed.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

No components are subject to the Massachusetts Right to Know Act.

**US. New Jersey Worker and Community Right-to-Know Act**

sodium 3-nitrobenzenesulphonate, CAS 127-68-4

**US. Pennsylvania Worker and Community Right-to-Know Law**

sodium 3-nitrobenzenesulphonate, CAS 127-68-4

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

Date of Issue: 5/30/2025

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.