

SAFETY DATA SHEET



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1-BUTANESULFONIC ACID, SODIUM SALT

SDS No. M0344

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 1-Butanesulfonic Acid, Sodium Salt

Synonyms: Sodium 1-Butanesulfonate; Sodium Butylsulfonate

Recommended Use: This product is recommended for laboratory and manufacturing use only. It is not recommended for drug, food or household use.

2. HAZARDS IDENTIFICATION



Label Elements

Signal Word: WARNING!

Hazard Statements:

- H303 – May be harmful if swallowed.
- H316 – Causes mild skin irritation.
- H320 – Causes eye irritation.
- H335 – May cause respiratory tract irritation.

Precautionary Statements:

- P281 – Use personal protective equipment as required.
- P335 – Brush loose particles off skin.

Emergency Overview

May be harmful if swallowed, inhaled, or absorbed through the skin. May cause irritation to eyes, skin, digestive tract, and respiratory tract.

HMIS Rating:

Health – 1 Flammability – 1 Physical Hazard – 0 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
1-Butanesulfonic Acid, Sodium Salt	2386-54-1	>99%	Yes

4. FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, begin artificial respiration. Get medical aid if victim has difficulty breathing.

Ingestion: Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have person lean forward. Get medical aid.

Skin Contact: Wash exposed area with soap and water. Get medical attention if irritation develops and persists.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flammability: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Auto-ignition Temperature: Not available.

Flash Point: Not available.

Flammable Limits: Not available.

Products of Combustion: Will decompose into toxic and irritating gases (carbon monoxide, carbon dioxide, and sulfur oxides) under fire conditions.

Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

Specific Explosion Hazards: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Fighting Media: Use water, dry chemical, carbon dioxide, or alcohol resistant foam.

National Fire Protective Association: Health - 1, Flammability - 1, Reactivity - 0

NOTE: NFPA ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. They are for use by emergency personnel to address the hazards that are presented by short term, acute exposure to this product under fire, spill, or similar emergencies. Ratings involve data and interpretations that may vary from company to company.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area and remove all ignition sources. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Sweep up spilled material and place in a suitable container. Always use proper personal protective equipment as described in section 8.

7. HANDLING AND STORAGE

Precautions: Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge. Always use proper personal protective equipment as described in section 8. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid inhalation and ingestion.

Storage: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid dust formation and control ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection: Wear protective chemical goggles or appropriate eye protection. For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Wear protective gloves and clean body-covering clothing.

Exposure Limits: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: White crystals or crystalline powder.

Odor: None reported

Molecular Formula: $\text{CH}_3(\text{CH}_2)_3\text{SO}_3\text{Na}$

Molecular Weight: 160.17

Auto-ignition Temperature: Not available.

Flash Point: Not available.

Flammable Limits: Not available.

pH: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 300° C (572° F)

Decomposition Temperature: Not available

Specific Gravity: Not available.

Vapor Density (Air=1): Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Solubility: Soluble in water (1-10%)

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: No information available.

Incompatibility With Various Substances: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon, dioxide, and sulfur oxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, ingestion, skin contact

Acute Exposure Hazards:

INHALATION HAZARD: May cause irritation of the respiratory tract. Symptoms may include coughing and shortness of breath. The toxicological properties of this material have not been fully investigated.

INGESTION HAZARD: May cause irritation of the digestive tract. Symptoms may include nausea, vomiting, and diarrhea. The toxicological properties of this material have not been fully investigated.

SKIN CONTACT HAZARD: May cause skin irritation, redness, and pain.

EYE CONTACT HAZARD: May cause eye irritation, redness, and pain.

Chronic Exposure Hazards: No information available.

Animal Toxicity: No information available.

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

Epidemiology: No information available.

Teratogenicity: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Environmental Fate: No information available.

Physical: No information available.

13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated for transportation.

15. REGULATORY INFORMATION

US Federal Regulations:

TSCA: CAS# 2386-54-1 is listed on the TSCA Inventory.

Health and Safety Reporting List: CAS# 2386-54-1: Not listed.

Chemical Test Rules: CAS# 2386-54-1 is not listed.

Section 12b: CAS# 2386-54-1 is not listed.

TSCA Significant New Use Rule: Does not have an SNUR under TSCA.

CERCLA Hazardous Substances: CAS# 2386-54-1: Not listed.

SARA Section 302: Does not have a TPQ

SARA Codes: CAS# 2386-54-1 – acute

Section 313: Butanesulfonic acid (CAS# 2386-54-1) is not subject to SARA Title III Section 313 and 40 CFR 373 reporting requirements.

Clean Air Act: CAS# 2386-54-1 is not listed as a hazardous air pollutant (HAP). It is not a Class 1 Ozone Depleter. It is not a Class 2 Ozone Depleter.

Clean Water Act: CAS# 2386-54-1 is not listed as a Hazardous Substance. It is not a Priority Pollutant. It is not a Toxic Pollutant.

OSHA: Not considered highly hazardous by OSHA.

US State Regulations:

CAS# 2386-54-1 is not listed on state right-to-know lists

California Prop 65: California No Significant Risk Level: Not listed

Canada:

DSL/NDL: CAS# 2386-54-1 is listed on Canada's DSL list.

WHMIS: Not available.

Ingredient Disclosure List: CAS# 2386-54-1 is not listed on Canada's Ingredient Disclosure List.

DSCL (EEC):

Hazard Symbols: Xi

Risk Phrases: R36/37/38 – Irritating to eyes, respiratory system, and skin.

Safety Phrases: S7/8 – Avoid contact with skin and eyes; S24/25 – Keep container tightly closed and dry.

WGK (Water Danger/protection): CAS# 2386-54-1: No information available.

16. OTHER INFORMATION

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