

Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

1. <u>Identification</u>

Product Identifier: Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

Synonyms: N-Acetylcysteine

Recommended Use: Pharmaceutical.

Company: Somerset Therapeutics LLC

Address: Somerset, NJ 08873

Customer care 1-800-417-9175

2. Hazard(s) Identification

Physical Hazards: Not classifiable. **Health Hazards:** Not classifiable.

Symbol(s):None.Signal Word:None.Hazard Statement(s):None.Precautionary Statement(s):None.

Hazards Not Otherwise Classified: Not classifiable.

Supplementary Information: While this material is not classifiable as hazardous under

the OSHA standard, this SDS contains valuable information critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users

of this product.

3. Composition/Information on Ingredients

Chemical Name	CAS Number	Synonyms	Chemical Formula	Molecular Weight	Percentage
Acetylcysteine	616-91-1	N-Acetylcysteine	C ₅ H ₉ NO ₃ S	163.2	20%

^{*}The formula also contains Disodium Edetate USP Dihydrate, 0.5 mg/mL; Sodium Hydroxide (used for pH adjustment), and Water for Injection, USP.



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

4. First Aid Measures

Ingestion: If a person vomits place them in the recovery position so

that vomit will not reenter the mouth and throat. Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves.

Eye Contact: Remove from source of exposure. Flush with copious

amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention.

Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to

protect themselves.

Skin Contact: Remove from source of exposure. Remove and isolate

contaminated clothing and shoes. Flush with copious amounts of water for at least 20 minutes. Use soap. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and

are aware of precautions to protect themselves.

Inhalation: Remove from source of exposure. Move individual(s) to fresh

air. Give artificial respiration if individual(s) are not breathing and call emergency medical service. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect

themselves.

Protection of First-Aiders: Use personal protective equipment (see section 8).

Signs and Symptoms: Not determined.

Medical Conditions Aggravated

by Exposure: Not determined.

Notes to Physician: Treat supportively and symptomatically.

5. Firefighting Measures

Suitable Extinguishing Media: The product contains a substantial proportion of water;

therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas. Use water, carbon

dioxide, dry chemical or foam as necessary.

Unsuitable Extinguishing Media: Not determined.



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

Specific Hazards Arising from the Chemical:

Hazardous Combustion Products: Though the material is non-combustible, evaporation of

water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible

substances.

Other Specific Hazards: Not determined.

Special Protective Equipment/

Precautions for Firefighters: Wear self-contained breathing apparatus and full and

protective gear.

6. <u>Accidental Release Measures</u>

Personal Precautions: Use personal protective equipment recommended in

Section 8 of this document and isolate the hazard area.

Personal Protective Equipment: For personal protection see section 8.

Methods for Cleaning Up: Absorb spills with inert material (e.g., dry sand or earth),

then place in a chemical waste container. After removal, flush spill area with soap and water to remove trace

residue.

Environmental Precautions: DO NOT allow wash water from cleaning or process

equipment to enter sewers, ditches and waterways.

Reference to Other Sections: Refer to Sections 8, 12 and 13 for further information.

7. <u>Handling and Storage</u>

Precautions for Safe Handling: Handle in accordance with product label and/or product

insert information. Handle in accordance with good

industrial hygiene and safety practices.

Conditions for Safe Storage,

Including Any Incompatibilities: Store at controlled room temperature $15^{\circ}\text{C} - 30^{\circ}\text{C}$ (59°F)

– 86°F). Store away from incompatible materials. Protect from light. Store according to label and/or product insert

information.

Specific End Use: Pharmaceuticals.

8. Exposure Controls/Personal Protection

Occupational Exposure Guidelines:

Common or Chemical Name	Employee Exposure Limits		
Acetylcysteine	Not established.		



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

Engineering Controls: Engineering controls should be used as the primary

means to control exposures. Enclosed local exhaust ventilation is required at points of dust, fume or vapour generation. HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours. Barrier protection or laminar flow cabinets should be considered for laboratory scale handling. A fume hood or vented balance enclosure is recommended for weighing/ transferring quantities

exceeding 500 mg.

Respiratory Protection: Not required for the normal use of this product. Where

respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29

CFR 1910.134).

Eyes Protection: Safety glasses with side shields are recommended.

Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash

facilities in the work area.

Hand Protection: Chemically compatible gloves. For handling solutions,

ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic non-latex gloves. Use of powdered latex gloves should

be avoided due to the risk of latex allergy.

Skin Protection: Wear protective laboratory coat, apron, or disposable

garment when working with large quantities.

9. Physical and Chemical Properties

Physical State/Color:Clear, colorless liquid.Odor:No data available.

Odor Threshold: No data available.

pH: 6.0 - 7.5.

Melting Point: No data available. Freezing Point: No data available. **Boiling Point:** No data available. **Flash Point:** No data available. **Evaporation Rate:** No data available. Flammability (solid, gas): No data available. Flammability Limit - Lower: No data available. Flammability Limit - Upper: No data available. Vapor Pressure: No data available. Vapor Density: No data available. **Relative Density:** No data available. **Solubility(ies):** No data available.

Partition Coefficient

(n-octanol/water): No data available.



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

Auto-Ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

10. Stability and Reactivity

Reactivity: No data available.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid (e.g., static

discharge, shock, or vibration): Protect from air and light.

Incompatible Materials: None known.

Hazardous Decomposition

Products: Decomposes on heating and produces toxic fumes of:

Carbon Dioxide (CO₂), Nitrogen Oxides (NO_x), Sulfur Oxides (SO_x), and other pyrolysis products typical of burning organic material. May emit

poisonous fumes.

Hazardous Polymerization: Will not occur.

11. <u>Toxicological Information</u>

Information on the Likely Routes of Exposure:

Inhalation: The material is not thought to produce either adverse

health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-

volatile nature of product.

Ingestion: Although ingestion is not thought to produce harmful

effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be

cause for concern.



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

Skin Contact: The material is not thought to produce adverse health

effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an

occupational setting.

Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably

protected.

Eye Contact: Although the liquid is not thought to be an irritant (as

classified by EC Directives), direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness (as with windburn).

Symptoms Related to the Physical, Chemical

and Toxicological

Characteristics: See Section 4. To the best of our knowledge, the

chemical, physical and toxicological properties have not

been thoroughly investigated.

Delayed and Immediate Effects of

Exposure: No data available.

Acute Toxicity:

Compound	Species	Route	Test Type	Dose
Acetylcysteine	Rat	Oral	LD_{50}	3,000 mg/kg
Acetylcysteine	Mouse	Oral	LD_{50}	>3,000 mg/kg
Acetylcysteine	Dog	Oral	LD_{50}	1,000 mg/kg
Edetate Disodium	Rat	Oral	LD_{50}	2,000 – 2,200 mg/kg
Edetate Disodium	Mouse	Oral	LD_{50}	2,050 mg/kg

Acute Toxicity – Dermal: No data available. **Acute Toxicity – Inhalation:** No data available. **Corrosivity:** No data available. **Dermal Irritation:** No data available. **Eye Irritation:** No data available. **Sensitization:** No data available. **Toxicokinetics/Metabolism:** No data available. **Target Organ Effects:** No data available. **Reproductive Effects:** No data available. **Carcinogenicity:** No data available.

National Toxicology Program (NTP): Not considered to be a carcinogen.

International Agency for Research on

Cancer (IARC): Not considered to be a carcinogen.

Occupational Safety and Health

Administration (OSHA): Not considered to be a carcinogen.

Somerset Therapeutics, LLC. Somerset, NJ 08873

Page **6** of **8**



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

Mutagenicity: No data available. **Aspiration Hazard:** No data available.

Chronic Effects: Limited evidence suggests that repeated or long-term

occupational exposure may produce cumulative health

effects involving organs or biochemical systems.

12. **Ecological Information**

Ecotoxicity

Aquatic: No data available. **Terrestrial:** No data available. Persistence and Degradability: No data available. **Bioaccumulative Potential:** No data available. **Mobility in Soil:** No data available. **Mobility in Environment:** No data available. **Other Adverse Effects:** No data available.

13. **Disposal Considerations**

Dispose of all waste in accordance with Federal, State and Local regulations.

14. **Transport Information**

> Not applicable. **UN Number: UN Proper Shipping Name:** Not applicable. **Transport Hazard Class (es):** Not applicable. **Packing Group:** Not applicable.

Department of Transportation: Not regulated as a hazardous material.

International Air Transport

Association (IATA): Not regulated as a dangerous good.

International Maritime Dangerous

Good (IMDG): Not regulated as a dangerous good.

15. Regulatory Information

US Federal Regulations:

Toxic Substance Control Act

(TSCA): Not listed.

CERCLA Hazardous Substance

and Reportable Quantity: Not listed.

SARA 313: Not listed. **SARA 302:** Not listed.



Acetylcysteine Injection [6 g/30 mL (200 mg/mL)

State Regulations

Massachusetts:Not listed.New Jersey:Not listed.Pennsylvania:Not listed.

California Proposition 65: Not listed.

16. Other Information

Not made with natural rubber latex.

Revision Date: 10/06/2024

Revision Number: 0

Disclaimer: This document is generated to distribute health, safety and environmental data. It is not a specification sheet and none of the displayed data should be construed as a specification. Information on this SDS sheet was obtained from sources which we believe are reliable, and we believe that the information is complete and accurate. However, the information is provided without any warranty, express or implied, regarding its correctness. Some of the information presented and conclusions drawn are from sources other than direct test data of the substance. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may also be beyond our knowledge. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. If the product is used as a component in another product, this SDS information may not be applicable. For these reasons, we do not assume any responsibility and expressly disclaim liability for any loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.