



Material Safety Data Sheet

I - Product Identification:

Code: 0495

Product Name: Acetylcysteine, USP (N-Acetyl-L-Cysteine) CAS#: 616-91-1
Empirical Formula: C₃H₉NO₃S
Chemical Name: N-Acetyl-L-Cysteine
Uses: Mucolytic; corneal vulnerary; antidote (acetaminophen poisoning).

II - Toxicological Information:

Irritancy: May cause eye and skin irritation.
Adverse Effects: Adverse effects include gastro-intestinal disturbances and rarely anaphylactic reactions.
Toxicity Data: N/A

III - Physical Data:

Physical State: Liquid ___ Solid X Gas___
Description: White crystalline powder.
Solubility: Freely soluble in water and in alcohol; practically insoluble in chloroform and in ether.
Other Physical Properties: mw: 163.20
USP Specifications:

Identification<197K>:	Conforms to the std test	Specific rotation<781S>:	+21°-+27°
PH<791>:	2.0-2.8 (1in 100 sol'n)	Loss on drying<731>:	<=1.0%
Residue on ignition<281>:	<=0.5%	Heavy metals<231>II:	<=0.001%
OVI<467>I:	Meets the requirements.	Assay (on dried basis):	98.0%-102.0%
Packaging and storage:	Preserve in tight containers.		

IV - Fire and Explosion Hazards:

Flammability: Non-flammable.
Flash Point: >=200°F
Extinguishing Media: Carbon dioxide, dry chemical, universal type foam.
Fire-Fighting: Evacuate unprotected and untrained personnel. Trained fire-fighting personnel should be equipped with self-contained breathing apparatus and full protective gear.

V - Reactivity Data:

Stability: N/A
Incompatibilities: Contact with highly reactive chemical oxidants.
Hazardous Decomp. Products: Carbon monoxide and/or carbon dioxide.
Hazardous Polymerization: Will not occur.

VI - Preventive Measures:

Preventive Measures: Avoid contact with skin and eyes. Avoid inhaling product dust or vapor.
Personal Protective Equipment: Safety glasses and chemical resistant gloves. If splashing may occur splash goggles or face shield is recommended. NIOSH-approved respiratory protection.
Specific Engineering Controls: Ventilation meeting ACGIH standards should be employed.
Spill Procedures: Remove any sources of flame or sparks. If in a confined area NIOSH-approved respiratory protection may be required. Absorb spill on vermiculite or other suitable absorbent material and remove to an approved disposal container.
Waste Disposal: Dispose of in accordance with local, state and federal regulations.
Storage: Preserve in tight containers.

VII - First Aid Measures:

Eyes: Flush with copious amounts of water for 15 minutes. Call a physician.
Skin: Wash with soap & water. Flush with large quantities of water. If irritation persists call a physician.
Ingestion: Administer water or milk to dilute. Contact a physician or local poison control center immediately. Do not induce vomiting.
Inhalation: Remove to fresh air and call a physician if necessary.

NOTE: If victim is unconscious, never induce vomiting nor give liquids. Place victim in a stable side position and keep warm.

Ecological Data: N/A



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Hazardous Ingredients:

N/A

References:

Available on request