Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Acetylcysteine USP
Commercial Name Not available.
Product Use N/A
Restrictions On Use N/A

Product Code 30-1601

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Eye irritation, category 2 H319: Causes serious eye irritation.

Signal Word WARNING

Hazard Statement(s) Cause serious eye irritaton

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Wash skin thoroughly after handling. Wear eye protection/ face protection.
Response If in the eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persist get medical advice attention.
Storage Not available
Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components N/A
% By Weight 100%
CAS# 616-91-1
Molecular Weight Not available.
Chemical Formula C5H9NO3S
Synonym(s) N/A

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Acetylcysteine	616-91-1	100	Not available.	ORAL (LD50):Acute: 5050mg/kg [Rat].7888 mg/kg[Mouse].

Section 4: First-Aid Measures

Inhalation	If breathed in, move person into fresh air. if symptoms persists, call physician.
Skin Contact	Immediately remove substance from the skin. Wash off plenty of water. Remove contaminated clothing and shoes. If symptoms persist, call a physician.
Eye Contact	Immediately flush eye with plenty of water. Protect unharmed eye. Remove contact lenses. If eye irritation, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water. consult physician if necessary,
Symptoms/Effects	
Acute	Irritation , Nausea, Vomiting
Delayed	Irritation , Nausea, Vomiting

Immediate Medical Attention
Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media
Use extinguishing mesaures that are appropiate to local circumstances and the surrounding environment. Water spray, dry chemical, ABC powder, CO2, foam.

Unsuitable Extinguishing Media
None known

Products of Combustion
Nitrogen oxides (NOx) Carbon oxides Sulfur oxides

Firefighters Special Equipment and Precautions
In the event of fire, wear self- contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions : Use protective equipment. Ensure inadequate ventilation, Avoid dust formation and avoid breathing dust. Environmental precautions: Should not be released into the environment. Do not allow material to contaminate ground water system. Prevent further leakage or spillage if safe to do so. Methods for cleaning up: Use mechanical handling equipment. Pick up an arrange disposal without creating dust. Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Local/Total ventilation: Ensure adequate ventilation. Advice on safe handling: Minimize dust generation and accumulation. Avoid breathing dust. Wear personal protective equipment. Advice on protection against fire and explosion: During processing, dust may form explosive mixture in air. Avoid dust formation. Hygiene measures: Avoid contact with skin, eyes and clothing. Keep away from food and drink. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. Dust explosion class: St1 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Storage class (TRGS 510): 11, Combustible Solids Storage period 5 years

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Avoid subsoil penetration Do not flush into surface water or sanitary sewer system
Engineering Controls	Not available
Personal Protection	Respiratory protection: In case of dust wear mask P2. Hand protection: Gloves of nitrile rubber. Protective gloves: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Take note of the information given by the producer concerning permeability and break through times and of special workplace conditions (mechanical strain, duration of contact). Follow the instructions for use issued by the producer. Gloves must be inspected prior to use. Recommended preventive skin protection. Eye protection: safety goggles Skin and body protection: Work uniform or lab coat Respiratory Protection: In the case of dust or aerosol formation use respirator with an apporaved filter. Filter type P Protective measures: Do not breathe dust

Section 9: Physical and Chemical Properties

Appearance	colourless white crystalline powder
Odor	sulfurous vinegar-like
Odor Threshold	N/A

Melting Point	108 - 111 °C	**pH**	ca. 2,8
Freezing Point	Not available.	**Vapor Pressure**	Not applicable.
Boiling Point/Range	143.9-145.3C (1,013.25 hPa)	**Vapor Density**	Not available.
Decomposition temperature	N/A	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	N/A	**Evaporation Rate**	Not available.
Flash Point	Not available.	**Autoignition temperature**	340C
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	14 Vol-%
		Upper	N/A

Solubility(ies)	easy soluble in water.
Other	Bulk density 600 - 800 kg/m3 Minimum ignition energy: 50 mJ

Section 10: Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Risk of dust explosion, Dust can form an explosive mixture in air
Conditions to Avoid	Not available
Incompatible Materials	metal, bases
Hazardous Decomposition Products	Nitrous gases, Sulfur oxides and carbon oxides

Section 11: Toxicological Information

RTECS HA1660000

Acute Toxicity
LD50 acute oral 5050 mg/kg rat

Skin Corrosion/Irritation
N/A

Serious Eye Damage/Irritation
Eye irritation, causes eye burns

Respiratory or Skin Sensitization
N/A

Germ Cell Mutagenicity
Test type Ames test negative, test type micronucleus test negative

Carcinogenicity
N/A

Reproductive Toxicity
N/A

Routes of Entry
Not available.

Symptoms Related to Exposure
N/A

Potential Health Effects
N/A

Target Organ(s) N/A

Section 12: Ecological Information

Ecotoxicity
(Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: Information taken from reference works and the literature. (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h Test Type:sstatic test Method: OECD Test Guideline 201 Remarks: Information taken from reference works and the literature.

Persistance and Degradability
Test Type: aerobic Result: Readily biodegradable. Biodegradation: 76% Exposure time: 28 d Method: OECD Test Guideline 301F

Bioaccumulative Potential
N/A

Mobility in Soil
mobile in soil

Other Adverse Effects
In large quantities, this product may affect the functioning of waste-water treatment plants

Section 13: Disposal Considerations

Waste Disposal
Dispose of as special waste in compliance with local and national regulations. Can be disposed of as a salod waste or burned in a suitable installation subject to local regulations. Contact waste disposal services.

Disposal of Container
Empty remianing content, Do not reuse empty containers. Empty containers can be landfilled, when in accordance with local regulations.

Other Considerations
N/A

Section 14: Transport Information

DOT Classification
Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
Relevant EU provisions transposed through retained EU law

Other

Section 16: Other Information

Not available.