



Section 1. Product and Company Identification**Product Name** N-Acetyl-L-Cysteine**Product ID** A0918**Chemical Name
(Synonyms)** Acetylcysteine; Brunac; Fabrol; Fluimucil; Fluprowit; Mucosil**Supplier** LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com**Emergency Phone #** 1-800-424-9300

Section 2. Hazards Identification**GHS Classification** Not a hazardous substance or mixture.**GHS Label elements including precautionary statements****Pictogram****Signal word**

Hazard and precautionary statements	Hazard statement Not a hazardous substance or mixture. Precautionary statement Not a hazardous substance or mixture.
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HMIS Classification	Health hazard: 0 Chronic health hazard: * Flammability: 0 Physical hazard: 0
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NFPA Rating	Health hazard: 0 Fire hazards: 0 Reactivity hazard: 0
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Potential Health Effects	Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May causes eye irritation.
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Ingestion: May be harmful if swallowed.

Section 3. Composition/Information on Ingredients

Substances

Formula C₅H₉NO₃S
CAS No. 616-91-1

Formula Wt. 163.20
EC No. 210-498-3

Section 4. First Aid Measures

General advice

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5 . Firefighting Measures

Flash Point

Not available.

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical powder, carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting and protective clothing if necessary.

Unusual Fire Hazards

Carbon oxides, nitrogen oxides (NO_x), sulfur oxides.

Section 6. Accidental Release Measures

Personal Precautions

Avoid dust formation. Avoid breathing vapors, mist, or gas.

Environmental Precautions

Do not let product enter drains.

Methods and materials for containment and cleanup

Avoid raising dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Wear gloves, goggles, and lab coat when handling this material. Use appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Store in a cool, dry and well-ventilated place in a tightly closed container.
Recommended storage temperature: Ambient

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

Other Remarks

None.

Section 8. Exposure Controls/Personal Protection

Personal protective equipment

EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values.
General industrial hygiene practice.

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full or Splash contact: Nitrile rubber - Minimum layer thickness 0.11, break through time 480 min., Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M).

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State	Solid.	Color	White powder.
Boiling Point	Not available.	Volatility	Not available.
Melting Point	106°C-109.5°C	Density	Not available.
Solubility	Soluble in water.	pH	Not available.
Flash Point	Not available.	Ignition temperature	Not available.
Lower explosion limit	Not available.	Autoignition temperature	Not available.
Upper explosion limit	Not available.	Vapor pressure	Not available.
Water solubility	Soluble in water.	Odor	Not available.
Partition coefficient: n-octanol/water	Not available.	Odor Threshold	Not available.
Relative vapor density	Not available.	Evaporation rate	Not available.

Section 10. Stability and Reactivity

Stability	Stable under recommended storage conditions.
Materials To Avoid	Keep away from heat, strong oxidizing agents, heavy metals, heavy metal salts, rubber, and oxygen.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

Possibility of hazardous reactions Not available.

Conditions to avoid Not available.

Section 11. Toxicological Information

Oral LD50 Rat 5,050 mg/kg
Mouse 4,400 mg/kg

Skin corrosion/irritation Not available.

Inhalation LC50 Not available.

Serious eye damage/irritation Not available.

Dermal LD50 Not available.

Respiratory or skin sensitization Not available.

Other information on acute toxicity Not available.

Germ cell mutagenicity Not available.

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Specific organ toxicity single exposure (GHS) Not available.

Synergistic effects Not available.

Specific organ toxicity repeated exposure (GHS) Not available.

Additional Information RTECS: HA1660000

Teratogenicity Not available.

Signs and symptoms of exposure Bronchospasm, nausea, vomiting, stomatitis and nasal discharge

Potential Health Effects Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

Carcinogenicity **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted.

Persistence and degradability Not available.

Other adverse effects Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal Dispose of material according to all federal, state, and local regulations.
Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA Not dangerous goods.

IMDG Not dangerous goods.

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components No SARA hazards.

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

Pennsylvania Right To Know Components N-Acetyl-L-Cysteine CAS #: 606-91-1 Revision Date:

New Jersey Right To Know Components N-Acetyl-L-Cysteine CAS #: 606-91-1 Revision Date:

California Prop 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

Other information The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 6/28/2019

For emergencies in the USA, call
CHEMTREC 800-424-9300