



金城医药
JINCHENG PHARMA
— 生物健康板块 —

山东金城生物药业有限公司

SHANDONG JINCHENG BIO-PHARMACEUTICAL CO., LTD.
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SAFETY DATA SHEET

MSDS for S-Acetyl- Glutathione

Section 1 - Chemical Product and Company Identification

MSDS Name: S-Acetyl-L-Glutathione

Company Identification:

SHANDONG JINCHENG BIO-PHARMACEUTICAL CO., LTD.

Address: Zichuan Economic Development Zone, Zibo City, Shandong Province, China

Tel.: +86-533-5415882 Fax: +86-533-5415898

Section 2 - - Hazards Identification

2.1 Classification of the substance or mixture

Not hazardous according to REGULATION (EC) No 1272/2008

Classification according to EU Directives 67/548/EEC or 1999/45/EC

2.2 Label Elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 othe hazards

This substance / mixture contains no componets considered to be either persistent , bioaccumulative and toxic(PBT), or every persistent and very bioaccumulative(vPvB) at levels of 0.1% or higher.

Section 3 - - Composition / Information on Ingredients

CAS#	Chemical Name	%(Assay)
3054-47-5	S-Acetyl-L-Glutathione	≥98.0%

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire-Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a tightly closed container in cool, dry area, recommend storage temperature under 25°C.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear chemical goggles

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator When necessary.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Appearance: white

Odor: odorless.

PH: ~3 (1% aq. sol.)

Vapor Pressure: Not available.

Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: Not available
Autoignition Temperature: Not available.
Flash Point: Not available.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature:
Solubility in water: Freely Soluble.
Specific Gravity/Density:
Molecular Formula: $C_{12}H_{19}N_3O_7S$
Molecular Weight: 349.36

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong-oxidizing agents.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS 3054-47-5: MC0556000
LD50/LC50: CAS# 70-18-8: Oral, mouse: LD50 = 5000 mg/kg.
Carcinogenicity: Glutathione -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

Section 12 - Ecological Information

No information is available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA: Glutathione is not regulated as dangerous goods.
IMO: Glutathione is not regulated as dangerous goods.
RID/ADR: Glutathione is not regulated as dangerous goods.

Section 15 - Regulatory Information

European/International Regulations: European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 3054-47-5: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 3054-47-5 is listed on Canada's DSL List.

CAS# 3054-47-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 3054-47-5 is listed on the TSCA inventory.

Section 16 - Other Information

MSDS Creation Date: 01/01/2010 Revision #0 Date: Original.

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