

SAFETY DATA SHEET

SECTION 1. Identification of the substance/mixture and of the company

1. Identification of the substance or mixture

Product No: 10619

Product Name: S-adenosylmethionine (SAM) GMP-grade (32 mM)

2. Recommended use of the chemical and restrictions on use

Relevant identified uses: For research use only.

Uses advised against: Not used for diagnostic procedures.

3. Details of the supplier of the safety data sheet

Yeasten Biotechnology (Shanghai) Co., Ltd.

Lane 166, Tianxiong Road, Pudong New Area Shanghai International Medical Zone,
Shanghai, China.

Hotline: +86-400-6111-883.

Fax: 021-34615995.

SECTION 2. Hazard Identification

1. GHS (Globally Harmonized System) Classification

Flammable liquids: Category 3 (Due to the presence of ethanol)

Skin irritation: Category 2

Eye irritation: Category 2A.

2. Signal word:



Warning

3. Health hazards: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

4. Precautionary Statements

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

Storage:

P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

5. Other Hazards

Mildly acidic solution (pH ~4): May cause slight irritation to eyes, skin, and mucous membranes.

Flammability: Contains low concentration of ethanol. Handle away from ignition sources.

SECTION 3. Composition/information on ingredients

Mixture

Component Information	Weight(%)	CAS. NO
S-adenosyl-L-methionine (SAM)	1~1.5%	29908-03-0
Ethanol	1~10%	64-17-5
Hydrochloric acid	0.01~0.1%	7647-01-0
H ₂ O	85~95%	7732-18-5

SECTION 4. First aid measures

1. Inhalation:

Move to fresh air. Seek medical attention if symptoms persist.

2. Skin Contact:

Wash with soap and water. Remove contaminated clothing.

3. Eye Contact:

Rinse cautiously with water for at least 15 minutes. Seek medical attention if irritation persists.

4. Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical advice if necessary.

5. Most Important Symptoms:

Mild irritation to eyes, skin, or respiratory tract.

SECTION 5. Fire-Fighting measures

1. Suitable extinguishing media: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

CAUTION: Use of water spray when fighting fire may be inefficient

2. Specific Hazards:

Contains ethanol; may produce flammable vapors under fire conditions

3. Protective Equipment:

Firefighters should wear self-contained breathing apparatus (SCBA)

SECTION 6. Accidental release measures

1. Personal precautions: Always wear recommended Personal Protective Equipment. Use personal protection equipment.

2. Methods for cleaning up: Absorb with inert absorbent material.

3. Environmental precautions: Avoid release into drains or environment

SECTION 7. Handling and storage

1. Handling: Avoid contact with eyes and skin
Use in well-ventilated area
2. Storage: Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.
3. Specific end use (s): For research use only.

SECTION 8. Exposure controls/personal protection

1. Exposure Limits:

Component	Limit
Ethanol	OSHA PEL: 1000 ppm
Hydrochloric acid	OSHA PEL: 5 ppm (Ceiling)

2. Engineering measures: Ensure adequate ventilation, especially in confined areas.
3. Personal protective equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment of each laboratory that may use the material.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection: Impervious gloves.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Lightweight protective clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

4. Environmental exposure controls: No special environmental precautions are required.

SECTION 9. Physical and chemical properties

Physical and chemical Properties	Information	Physical and chemical Properties	Information
Form	Liquid	Flammability(solid gas)	No Data
Appearance	Colorless	Oxidising properties	No Data
Odour	Odourless	Water solubility	No Data
Odour Threshold	No Data	Upper explosion limit	No Data
Boiling point / boiling range	No Data	Lower explosion limit	No Data
Melting point / melting range	No Data	Vapour Pressure	No Data
flash point	No Data	vapour density	No Data
Autoignition temperature	No Data	Viscosity	No Data
Evaporation rate	No Data	pH value	4.0

SECTION 10. Stability and reactivity

1. Chemical stability: Stable under normal conditions.
2. Reactivity: None known.
3. Possibility of hazardous reactions: Hazardous reaction has not been reported.
4. Conditions to avoid: No information available.
5. Incompatible materials: Strong acids. Strong oxidants.

6. Hazardous decomposition products: No data available.

SECTION 11: Toxicological information

1. Acute toxicity: No toxicology information is available.
2. Principle Routes of exposure potential Health effects.
 - Eyes: May cause eye irritation in susceptible individuals.
 - Skin: May cause skin irritation in susceptible individuals.
 - Inhalation: May be harmful by inhalation.
 - Ingestion: May be harmful if swallowed.
 - Carcinogenic effects: None.
 - Mutagenic effects: None.
 - Reproductive toxicity: None.
 - Sensitization: None.

SECTION 12: Ecological information

1. Ecotoxicity: Harmful to aquatic life with long lasting effects.
2. Mobility: No information available.
3. Biodegradation: No information available.
4. Bioaccumulation: No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name: Not classified as dangerous according to shipping regulations.
Hazard Class: None.
Subsidiary class: None
Packing group: None.
UN-No: None.

SECTION 15: Regulatory information

1. International Inventories: No information available.
2. China: No information available.

SECTION 16: Other information

1. Indication of changes: GHS aligned.
2. Training instructions: Use as instructed.
3. Further information: The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. This SDS has been prepared for use with this product only.
4. Notice to readers: The information and recommendations in this safety data sheet should be regarded as a supplement to existing regulations and relevant information that should be known before. It is the responsibility of the users to determine the applicability of this information and

the suitability of the material or product for any particular purpose. The health and safety of employees while using this product should be taken responsibly by the employer.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

End of Safety Date Sheet