

SAFETY DATA SHEET (SDS)

A 83-01

1. Identification

Product Name: A 83-01

Product Code: TB60302

CAS No.: 909910-43-6

Molecular Formula: C₂₅H₁₉N₅S

Molecular Weight: 421.52

Product Use: For Research Use Only (RUO). Laboratory chemical; manufacture of substances.

Uses Advised Against: Any use other than the identified research use.

Distributed by: Trailhead Biosystems Inc.

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SDSs are available at the following website: www.trailbio.com

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2. Hazard(s) Identification

Classification (OSHA HCS 2024, GHS Rev. 7; 29 CFR 1910.1200)

Acute toxicity, oral – Category 4, H302

Skin corrosion/irritation – Category 2, H315

Serious eye damage/eye irritation – Category 2A, H319

Specific target organ toxicity, single exposure; Respiratory tract irritation – Category 3, H335

Hazards not otherwise classified (HNOC)

None.

GHS Label Elements

Pictogram:



Signal Word: Warning

Hazard Statements

H302 – Harmful if swallowed

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H335 – May cause respiratory irritation

Precautionary Statements – Prevention

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 – Wash hands thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

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

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Precautionary Statements – Response

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P330 – Rinse mouth.

P362+P364 – Take off contaminated clothing and wash it before reuse.

Precautionary Statements – Storage

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

Precautionary Statements – Disposal

P501 – Dispose of contents/container in accordance with local regulations.

3. Composition/Information on Ingredients

Substance

Chemical Name: A 83-01

CAS No.: 909910-43-6

Molecular Formula: C₂₅H₁₉N₅S

Molecular Weight: 421.52

Single substance supplied at ≥ 98% (as supplied). See Section 2 for hazard classification.

4. First-Aid Measures

Description of first-aid measures**Eye Contact**

Where Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes. Protect uninjured eye. Remove contact lenses if present and easy to do. Continue rinsing and seek immediate medical attention.

Skin Contact

Where Diphoterine is not available, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Immediately seek medical attention.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a poison center or physician if you feel unwell. If breathing is irregular or stopped, administer artificial respiration.

Ingestion

Wash out mouth with plenty of water (only if conscious); do NOT induce vomiting; obtain immediate medical attention.

Most important symptoms/effects, acute and delayed

No known symptoms or effects.

Indication of immediate medical attention and special treatment needed

No special immediate treatment required

5. Fire-Fighting Measures

Suitable Extinguishing Media

Carbon dioxide (CO₂), alcohol-resistant foam, dry chemical powder. Use water spray to extinguish fire.

Unsuitable Extinguishing Media

None known.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Remove undamaged containers from fire area if safe to do so.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Use full personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. Refer to protective measures listed in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains, waterways, or sewer systems. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.

Methods for Cleaning Up

Absorb spilled material with an inert absorbent (e.g. sand, silica gel, vermiculite) before transferring into an airtight container. Dispose appropriately according to local regulations.

7. Handling and Storage

Precautions for safe handling

Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat/sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust ventilation, especially if dust, aerosol, or fumes will be generated. Avoid contact with skin, eyes, and clothing. For precautions see section 2.2

Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in a cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature (powder): -20 °C – 3 years, protect from light, stored under nitrogen

Recommended storage temperature (in solvent): The compound is unstable in solutions, freshly prepared is recommended.

Shipping: Ambient temperature if less than 2 weeks.

8. Exposure Controls/Personal Protection

Control parameters

Exposure Guidelines

This product contains no substances with established occupational exposure limit (OEL) values.

Appropriate engineering controls

Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety goggles with side-shields.

Hand protection

Protective (impervious) gloves.

Skin and body protection

Impervious clothing.

Respiratory protection

Suitable respirator where dust, aerosol or fume may be generated.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices. Ensure hair or skin particles cannot enter the chemical container. Wash hands before and after use. Do not eat, drink, or smoke when using this product.

Environmental exposure controls

Avoid discharge into the environment. Keep product away from drains, water courses, and soil. Clean spillages safely as soon as possible.

9. Physical and Chemical Properties

Appearance: Solid

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: 111 °C

Boiling point/boiling range: 590 °C at 760 mmHg

Flash Point: No data available

Evaporation Rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: No data available

Solubility: No data available

Partition Coefficient (n-octanol/water): No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Molecular Weight: 421.52

Physical State at 20 °C: Solid

10. Stability and Reactivity

Reactivity

No data available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal storage conditions.

Conditions to avoid

Heat, sparks, open flames, sources of ignition. Exposure to moisture.

Incompatible Materials

Strong acids/alkalis, strong oxidising/reducing agents.

Hazardous Decomposition Products

Under fire conditions, may decompose and emit toxic fumes.

11. Toxicological Information

Information on toxicological effects

Acute toxicity (oral)

No Toxicology data available for this product.

Skin corrosion/irritation

No Toxicological data available for this product.

Serious eye damage/irritation

No Toxicological data available for this product.

Respiratory or skin sensitization

No Toxicological data available for this product.

Germ cell mutagenicity

No Toxicological data available for this product.

Reproductive Toxicity

No Toxicological data available for this product.

STOT – single exposure

No Toxicological data available for this product.

STOT – repeated exposure

No Toxicological data available for this product.

Aspiration hazard

No Toxicological data available for this product.

Carcinogenicity

No Toxicological data available for this product.

Additional information

RTECS No.: Not available. This information is based on current knowledge; the chemical, physical, and toxicological properties have not been completely investigated.

12. Ecological Information

Ecotoxicity

No data available.

Persistence and degradability

No Ecological data available for this product.

Bioaccumulative potential

No Ecological data available for this product. **Mobility in soil**

No Ecological data available for this product.

Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

Other adverse effects

No data available.

13. Disposal Considerations

Waste treatment methods

Ensure product is disposed of by licensed waste carriers in accordance with prevailing country, federal, state, and local regulations.

Contaminated packaging

Ensure inner packaging is disposed of by licensed waste carriers. Some outer packaging may be recyclable if not contaminated.

14. Transport Information

DOT: Not regulated (Not dangerous goods).

TDG: Not determined

MEX: Not determined

ICAO: Not determined

IATA: Not regulated (Not dangerous goods).

IMDG: Not regulated (Not dangerous goods).

ADR/RID: Not determined

ADN: Not determined

15. Regulatory Information

U.S. Federal Regulations

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

SARA 313: This material does not contain any chemical components with known CAS numbers above De Minimis reporting levels under SARA Title III, Section 313.

SARA 311/312 Hazards – No SARA Hazards.

US State Regulations

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

Massachusetts Right to Know: No components subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know: No components subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know: No components subject to the New Jersey Right to Know Act.

16. Other Information

Prepared By	Trailhead Biosystems
Preparation Date	2026-08-20
Revision Date	2026-08-20
Revision Note	No information available

Disclaimer: The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. This product is For Research Use Only and must be handled only by suitably qualified, experienced personnel in appropriately equipped facilities. The burden of safe use of this material rests with the user. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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