

SAFETY DATA SHEET

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

Product name: Fulvic acid

Product code: BLK0430

CAS No.: 479-66-3

Recommended use: For research use only. Not for human or veterinary use.

Company: Biolinks k.k.

Address: 2-12-5-710 Minamioi, Shinagawa-ku, Tokyo 140-0013, Japan

Telephone: +81-3-5767-6821

Email: info@biolinks.co.jp

Emergency telephone: +81-3-5767-6821

2. Hazards identification

Classification (GHS): Not classified due to insufficient data.

Signal word: None

Hazard statements: Data not available.

Precautionary statements:

- Handle only in a chemical fume hood.
- Avoid inhalation, ingestion, or contact with skin and eyes.
- Wear suitable protective clothing, gloves, and eye/face protection.

Other hazards: Research chemical. Toxicological properties have not been fully investigated.

3. Composition/information on ingredients

Component: Fulvic acid

CAS No.: 479-66-3

Molecular Formula: C₁₄H₁₂O₈

Molecular Weight: 308.246

Purity: ≥95%

4. First aid measures

General advice: Consult a physician. Show this SDS to the doctor in attendance.

If inhaled: Move person to fresh air. Seek medical attention if symptoms persist.

If on skin: Wash with soap and water. Remove contaminated clothing.

If in eyes: Rinse cautiously with water for several minutes and seek medical advice.

If swallowed: Rinse mouth. Do not induce vomiting without medical advice.

5. Firefighting measures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder, or foam.

Specific hazards: May emit toxic fumes (CO, CO₂, NO_x) under fire conditions.

Protective equipment: Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Avoid dust formation and contact with skin or eyes.

Environmental precautions: Prevent entry into drains or waterways.

Methods for cleaning up: Sweep up carefully and place in suitable container for disposal.

7. Handling and storage

Precautions for safe handling: Use in a chemical fume hood.

Conditions for safe storage: Store tightly closed in a cool, dry, dark place.

Recommended storage temperature: -20°C

Incompatibilities: Strong oxidizing agents.

8. Exposure controls/personal protection

Engineering controls: Use chemical fume hood.

Respiratory protection: Approved respirator if necessary.

Hand protection: Nitrile gloves.

Eye protection: Safety goggles.

Skin protection: Lab coat.

9. Physical and chemical properties

Appearance: Off-white to yellow powder

Odor: Not available

Molecular formula: C₁₄H₁₂O₈

Molecular weight: 308.246

Melting point: Not determined

Solubility: 1 mg/mL in ethanol, methanol, and DMSO

Stability: Stable under recommended storage conditions

10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Heat, moisture, light.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: CO, CO₂, NO_x, HCl (if chlorinated compound).

11. Toxicological information

Acute toxicity: No data available.

Irritation: May cause irritation to skin, eyes, or respiratory tract.

Chronic effects: No data available.

12. Ecological information

Ecotoxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

13. Disposal considerations

Dispose in accordance with local, regional, and national regulations.

Use licensed chemical waste disposal services.

14. Transport information

UN number: Not regulated.

UN proper shipping name: Not dangerous goods.

Transport hazard class: None.

Packing group: None.

Marine pollutant: No.

15. Regulatory information

For research use only. Not for drug, household, or agricultural use.

16. Other information

The information provided is believed to be accurate but is not guaranteed to be complete.

Biolinks k.k. shall not be held liable for any damage resulting from handling this product.