



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B910-911 Xincheng Business Center,

Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Material Safety Data Sheet

Fulvic Acid

Section 1: Chemical Product and Company Identification

Molecular formula:C14H12O8

CAS Nr: 479-66-3

Molecular weight: 308.24028

Synonyms:3,4-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo- (6CI);

Contact Information for Emergency: (0086) 551 65418678

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
Fulvic acid	479-66-3	95min

Section 3: Hazards Identification

KEEP OUT OF REACH OF CHILDREN - CAUTION - May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, and sores. In case of contact, flush with water. Get medical attention for eyes. This blended liquid fertilizer is a mixture of Urea-Ammonium-Nitrate solution, plant extracts, fulvic acid, blackstrap molasses, and ammonium propionate. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye and skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this

product.

This product is a dark brown-colored liquid with sugary, molasses and slight ammonia odor. Primary routes of entry are inhalation, eye contact and skin contact.

Section 4: First Aid Measures

If in eyes: Immediately rinse with water for 5 minutes

If on skin: Wash skin with soap and water

If swallowed: Rinse mouth with water and drink large a quantity of water

If inhaled: Remove product or move person to fresh air

Section 5: Fire and Explosion Data

FLASH POINT (° F/Test Method): None to boiling

FLAMMABLE LIMITS (LFL & UFL): Not applicable

EXTINGUISHING MEDIA: Use water spray, dry chemical or carbon dioxide

HAZARDOUS COMBUSTION PRODUCTS: Vapors are non-toxic and non-irritant

SPECIAL FIRE FIGHTING PROCEDURES: Remove container from fire area

Section 6: Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Stop leak, contain spill and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal.

Wash down area. Uncontaminated spilled material may be reused.

Section 7: Handling and Storage

HANDLING: Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required.

Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.

STORAGE: Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals.

Section 8: Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Not normally required.

RESPIRATORY PROTECTION: Not normally required.

PERSONAL PROTECTIVE EQUIPMENT: Chemical goggles or shielded safety glasses and rubber or neoprene gloves are not required, but its use is recommended

Section 9: Physical and Chemical Properties

Appearance: Brown Yellow powder, soluble in water

BFA: 95%

PH: 5-6

Trace element:15%
Amino acid:10%
Water insoluble:0.2-0.3%
Moisture:3-5%
Fineness (mesh),% mix:150 mesh

Section 10: Stability and Reactivity Data

STABILITY: Stable for at least 2 years under normal conditions.
INCOMPATIBILITY: Strong bases and oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Urea may decompose to release cyanuric acid, ammonia, HCN, NO.
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11: Toxicological Information

Acute Oral LD 50 (rat): Not established
Acute Dermal LD50(rabbit): Not established
Eye Irritation (rabbit): Non-irritant in rabbits. Skin Irritation (rabbit): Non-irritant in rabbits.
Inhalation LC 50 (rat): Not established Skin Sensitization (guinea pig): Not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

Section 12: Ecological Information

Ecotoxicology: Due to the non-toxic classification of this product no negative impact on wildlife is expected.
Biodegradation: Oxidation and microorganisms.

Section 13: Disposal Considerations

Waste disposal: Contaminated absorbents and surplus product should be buried in accordance with any local legislation.
Container disposal: Wash thoroughly with water and soap prior to reuse.

Section 14: Transport Information

DOT Shipping Description: NOT REGULATED

Section 15: Other Regulatory Information

NFPA & HMIS Hazard Ratings:

NFPA	HMIS
1 Health 0 Least	1 Health
0 Flammability 1 Slight	0 Flammability
0 Instability 2 Moderate	0 Reactivity

3 High H PPE
4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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