

SAFETY DATA SHEET

Last updated: 7 August 2023

1. PRODUCT AND COMPANY IDENTIFICATION

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| Product Name: | Fulvic Acid (liquid) |
| Other Names: | Plant Doctor Fulvic Acid |
| Product Type: | Liquid bio-stimulant |
| Chemical family: | Organic polyphenolic acid chains |
| Recommended Use: | Horticultural plant & soil nutrient adjuvant |
| Restrictions on use: | None known |
| HS Code: | None known |

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|-------------------------|---|--------------|
| Manufacturer: | Plant Doctor Rx Pty Ltd T/A Agtech Natural Resources 8/19 Expo Ct, Ashmore, QLD, 4214, Australia Ph: 1300 385 842 (Monday to Friday: 8.00am – 4.00pm) admin@agtechglobal.com.au | |
| Emergency Phone: | Poisons Information Centre | 13 11 26 |
| | EPA for large scale spills | 1300 372 842 |

2. HAZARDS IDENTIFICATION

GHS Classification: Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition).

GHS Label Elements: None

| Statement of Hazard | Precautionary Statements |
|---------------------|---|
| None known | P280 Wear protective gloves, eye protection, and faceprotection. 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 attention. P302 + P352 IF ON SKIN: Rinse with water. P332 + P313 If skin irritation occurs: Get medical attention. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No. | Amount |
|--|------------|-------------|
| Potassium fulvic acid | 479-66-3 | Proprietary |
| Polyphenolic Acid | 80-05-7 | Proprietary |
| K2O (Potassium Oxide) | 12136-45-7 | Proprietary |
| Other ingredients determined not to be hazardous | N/A | balance |

4. FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for 15 minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash skin with water. Get medical attention if irritation occurs and persists. Launder clothing before re-use.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Rinse mouth with water and give 500ml of water to drink. Get medical attention if symptoms develop.

Inhalation: Remove victim to fresh air. Get medical attention if symptoms occur and persist.

Most important Symptoms: May cause moderate eye and skin irritation. Inhalation of mists may cause mucous membrane and respiratory irritation.

Indication of immediate medical attention/special treatment: Immediate medical attention should not be required. Treat symptomatically for 4% acids.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Non-flammable. Use extinguishing agent suitable for surrounding fire.

Specific Hazards arising from the chemical: None known.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.

Explosion Data (sensitivity to mechanical impact or static discharge): Not combustible.

Further information:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid contact with the eyes. Avoid prolonged skin contact. Wear appropriate protective clothing. Do not breathe vapours.

Methods and Materials for Containment and Cleaning Up: Contain and collect free liquid where possible. Substance is not harmful to the environment, humans, flora or fauna. Best practice not to release in concentration to waterway but not harmful if occurs. Ensure to advise the Environmental Protection Authority or your local Waste Management. Safe for landfill and green organics waste.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin & clothing. Wear appropriate protective clothing, glasses and gloves. Wash thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry and dark area. Keep containers closed when not in use. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: No Australian Exposure Standard available

Engineering Controls: Protect from splashes. In most circumstances natural ventilation systems are adequate. Where mists are generated in an enclosed area a local exhaust ventilation system may be needed.

Respiratory Protection: Respiratory protection is not normally needed. In operations where exposures are excessive or symptoms occur, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Wear impervious gloves made of Neoprene, Nitrile, Butyl or PVC to prevent prolonged skin contact minimum thickness 0.11mm. Break through time 480 mins. Prolonged contact can dry the skin excessively.

Eye Protection: Chemical safety glasses with side shields or goggles should be worn where splashing is possible.

Other: Impervious coveralls, apron and boots as needed to avoid contact. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance and Odour: Dark reddish brown liquid with slight sweet odour. | |
| Physical State: Liquid | Odour Threshold: Not determined |
| Vapor Density: Not determined | Initial Boiling Point/Range: ±100°C |
| Solubility In Water: 100% soluble. | Vapor Pressure: |
| Relative Density: not available | Evaporation Rate: same as water |
| Melting/Freezing Point: 0°C | pH: 6-8 |
| VOC Content: Not determined. | Octanol/Water Coefficient: Not determined |
| Storage life > 2 years | Decomposition Temperature: Not determined |
| Viscosity: same as water | Flammability (solid, gas): Not applicable |
| Flashpoint: Not available. | Autoignition Temperature: Not applicable |
| Flammable Limits: LEL: Not applicable | UEL: Not applicable |
| Specific Gravity: (H2O = 1) same as water | NPK: |

10. STABILITY AND REACTIVITY

Reactivity: None known.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: none known.

Conditions to Avoid: Avoid extreme heat or freezing temperatures. Store in original container. Avoid exposure to sunlight.

Incompatible Materials: None known

Hazardous Decomposition Products: None known

Hazardous polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Eye: May cause slight eye irritation or inflammation.

Skin: No known acute effects of this product resulting from skin contact but may irritate damaged skin and cause inflammation.

Ingestion: No known acute effects as a result from ingestion. Irritation in the mouth and digestive tract, after ingestion may cause vomiting, fever, abdominal pain, loss of appetite.

Inhalation: Negligible at short term exposure.

Chronic: No data available

Sensitization: This material is not known to cause sensitization.

Carcinogenicity: None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Germ Cell Mutagenicity: No data currently available.

12. ECOLOGICAL INFORMATION

This substance is unlikely to be harmful to aquatic organisms. Avoid contaminating waterways. No ecological problems are expected when the product is handled with due care and attention.

Ecotoxicity: No data available

Persistence and Degradability: Not data available

Bio accumulative Potential: Not data available.

Mobility in Soil: Not data available.

Other Adverse Effects: None known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

Processing, use or contamination of this product may change the waste management options.

The unclean container must be triple rinsed and disposed of accordingly.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); nor by air according to the IACO (IATA Regulations), or by sea according to the IMO (IMDG Code). DOT Hazardous Materials Description: Not regulated

IMDG Shipping Description: Not regulated

IATA Shipping Description: Not regulated

UN Number: Not Dangerous Goods

15. REGULATORY INFORMATION

Not a Hazardous Chemical to the Australian GHS Criteria.

Not Dangerous Goods. Not a Scheduled Poison.

AICIS - Aust. Inventory of Industrial Chemicals: All ingredients are on the AIIC.

APVMA Approval No: Not required.

Hazard Category for Section 311/312: Refer to Section 2 for OSHA Hazard Classification.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

INTERNATIONAL CHEMICAL INVENTORY STATUS:

United States TSCA: All the components are listed.

16. OTHER INFORMATION

Revision Summary:

14/06/2023: v2

28/11/2018: V1

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Agtech shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.