

### Material Safety Data Sheet

#### 1 Identification of the substance/preparation and of the company/undertaking

**.Trade name:** FULVIC ACID 95

**.Application of the substance:** Use for water-soluble fertilizer

**.Manufacturer/Supplier:** SUZHOU DORA AGRI-TECH CO., LTD

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**.Further information obtainable from:** SUZHOU DORA AGRI-TECH CO., LTD

**.Information in case of emergency:** SUZHOU DORA AGRI-TECH CO., LTD

**.E-Mail:** jessie@doraagri.com

**.Contact:** Jessie

#### 2 Composition/information on ingredients

**Description:** Mixture of substances listed below with additions

<b>.Components Number:</b>	<b>CAS Number</b>	<b>Approximate(%)by Wt.</b>
Humic Acid	1415-93-6	---
Fulvic acid	479-66-3	95%
Potassium monoxide	12136-45-7	---
Water	7732-18-5	5%
Water insoluble matter	-- -- --	1%

#### 3 Hazards identification

**.NFPA ratings (scale 0 - 4)**



Health = 1; Fire = 0 ; Reactivity = 0

**.HMIS-ratings (scale 0 - 4)**

<b>HEALTH</b>	<b>1</b>
<b>FIRE</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>

Health = 1; Fire = 0; Reactivity = 0

**Potential Acute Health Effects:**

**.Primary Entry Routes:** Swallowed, Inhalation, Skin, and eye contact

**.Inhalation:** Negligible at short term exposure to low levels dust, Long term inhaled high concentrations of dust can be irritating to the upper respiratory tract .

- .Eyes:** May cause slight eye irritation inflammation. Direct contact should be avoided to prevent physical damage.
- .Skin:** No known acute effects of this product resulting from skin contact ,but it will irritant the damaged skin and cause inflammation, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.
- .Swallowed:** The product is expected a harmful can not to Ingestion.Ingestion will irritation the mouth and digestive tract,after ingestion will have vomiting , fever , abdominal pain, loss of appetite.
- .Potential Chronic Health Effects:**
- CARCINOGENIC EFFECTS:** Not available.
  - MUTAGENIC EFFECTS:** Not available.
  - TERATOGENIC EFFECTS:** Not available.
  - DEVELOPMENTAL TOXICITY:** Not available.
- Repeated or prolonged exposure is not known to aggravate medical condition.**

#### 4 First aid measures

**Generally not hazardous in normal handling, however good laboratory practices should always be used.**

**Avoid long term exposure to skin or by inhalation.**

**.Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical aid.

**.Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**.Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid If irritation develops or persists.

**.Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**.Medical conditions aggravated by exposure:** No medical conditions are known to be aggravated by these products.

**.Notes to Physician:** None

#### 5 Fire-fighting measures

**General Information:** As in any fire,wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

**.Flammable class:** 0

**.Suitable extinguishing media:** Water, CO<sub>2</sub>, Dry Chemicals, Foam-Fog

**.Fire/Explosion Hazards:** Negligible fire hazard when exposed to heat or flame.

**.Fire Fighting Procedure:** Wear self contained breathing apparatus meeting NIOSH standards.

**.Other information:** Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists.

#### 6 Accidental release measures

**.Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**.Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## 7 Handling and storage

**The regulations relating to storage remises apply to workshop where the product is handled :**

**.Handling:** Removal of mobile products need to wear protective gloves when products for the brittle materials, handled with care when handling. Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean cloths, must be worn. Observe all warnings and precautions listed for the product.

**.Storage:** Store in a cool & dry area away from heat sources & protected from light. stored in relatively stable areas, to avoid collision occurred on a hard object. Avoid dust formation and control ignition sources. Keep air contact to a minimum.

**.Further information about storage condition:** None.

## 8 Exposure controls/personal protection

**.Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**.Personal Protection:** Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**.Protective Gloves:** Protective Gloves

**.Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**.Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**.Health measures:** Local exhaust ventilations may be necessary for some operation

**.PEL (OSHA):** None Established

**.TLV (ACGIH):** None Established

## 9 Physical and chemical properties

<b>.General Information</b>	
<b>Form:</b>	Solid Powder, Piece or Grain
<b>Color:</b>	Yellow Brown
<b>Odor:</b>	Odorless
<b>.Change in condition</b>	
<b>Melting point/Melting range:</b>	Not available
<b>Boiling point/Boiling range:</b>	Not available
<b>.Self-igniting:</b>	Product is not self-igniting
<b>.Danger of explosion:</b>	Not available
<b>.Density:</b>	
<b>.Relative density:</b>	<1 (Water=1)
<b>.Vapor density:</b>	Not available
<b>.Evaporation rate</b>	Not available
<b>.Solubility in/Miscibility with</b>	
<b>Water:</b>	Soluble
<b>.PH-Value:</b>	Alkaline

## 10 Stability and reactivity

- .Chemical Stability:** Stable under normal temperatures and pressures.
- .Decomposition Products:** The following combustion products may be generated: toxic gases and trace volatile organic compounds.
- .Materials with which substance is incompatible:** Not available.
- .Hazardous Polymerizations:** Will not occur.

## 11 Toxicological information

- .Toxicity to Animals:**
  - LD50: Not available.
  - LC50: Not available.
- .Other Toxic Effects on Humans:** Not available.
- .Special Remarks on Toxicity to Animals:** Not available.
- .Special Remarks on Chronic Effects on Humans:** Not available.
- .Special Remarks on other Toxic Effects on Humans:** Not available.

## 12 Ecological information

- .Ecotoxicity:** Not available.
- .Products of Biodegradation:** None hazardous short term degradation products are not likely.
- .Water Danger/Protection:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

## 13 Disposal considerations

- Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste Generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
- .Waste Disposal Methods:** Disposal must be done as territory and /or local government regulations.. Waste management information will help to receive the best results.
  - .Disposal of packaging:** Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

## 14 Transport information

- .DOT Classification:** Not a DOT controlled material (United States).
- .UN Number:** Not available.
- .Packing Group:** III
- .Special Provisions for Transport:** Not applicable.
- .Marine Pollutant:** Yes
- .TDG Classification:** Not controlled under TDG (Canada).
- .ADR/RID Classification:** Not controlled under ADR( Europe)
- .IMO/IMDG Classification:** Not Controlled under IMDG.
- .ICAO/IATA Classification:** Not controlled under IATA.

## 15 Regulatory information

### US FEDERAL

**TSCA:** Not listed on the TSCA inventory. It is for research and development use only.

**Health & Safety Reporting List:** None of the chemicals are on the Health & Safety Reporting List.

**CERCLA Hazardous Substances and corresponding RQs:** None of the chemicals in this material have an RQ.

**Chemical Test Rules:** None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b:** None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule:** None of the chemicals in this material have a SNUR under TSCA.

**SARA Section 302 Extremely Hazardous Substances:** None of the chemicals in this product have a TPQ.

**Section 313:** No chemicals are reportable under Section 313.

**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA.

### California Prop 65

**California No Significant Risk Level:** None of the chemicals in this product are listed.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Risk Phrases:

20/22 Harmful by inhalation and if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

41 Risk of serious damage to the eyes.

#### Safety Phrases:

2 Keep out of the reach of children.

22 Do not breathe dust.

25 Avoid contact with eyes.

46 If swallowed, seek medical advice immediately and show this container or label.

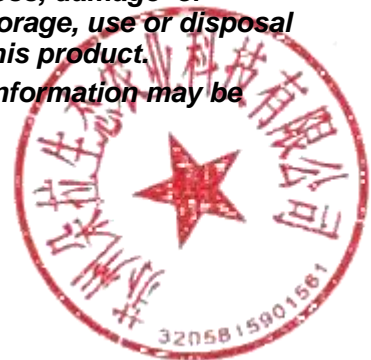
## 16 Other information

The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014:2009.

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If the product is used as a component in another product, this MSDS information may be applicable.



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