

# Material Safety Data Sheet

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Humic acid, ECO-humic, Saver, Potassium Humate

Use of the substance/preparation:

Apply as a kind of conditioner to soil.

Company identification:

JINGCHENG IMPORT AND EXPORT COMPANY LIMITED

28F, C BUILDING OF SHIJIJINYUAN SHOPPING MALL, NO. 6 SOUTH JINYANG ROAD,  
GUIYANG, CHINA

Emergency telephone:

+86 851 83849314

## Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Humic acid

Weight %: approx. 80%

CAS No. : 1415-93-6 Index No. :

---

Appearance: Black shiny flakes

Hazard symbol:

---

Einecs: 200-310

R-Phrase:

---

Bentonite powder

Weight %: approx. 20%

CAS NO. : 1302-78-9 Index NO. :---

Hazard symbol: ---                      Einecs: ---

R-Phrase: ---

## Section 3 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Not considered a dangerous substance according to directive 1999/45/EC  
and its  
amendments

ACUTE HEALTH EFFECTS

SWALLOWED

Although ingestion is not thought to produce harmful effects (as  
classified under EC

Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

#### EYE

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness (as with windburn).

#### SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

#### INHALED

The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

#### CHRONIC HEALTH EFFECTS

Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness. Lung shadows show on X-ray. Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

## Section 4 – FIRST AID MEASURES

### SWALLOWED

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### EYE

If this product comes in contact with eyes:

- Wash out immediately with water.
- If irritation continues, seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### SKIN

If skin contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

### INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

NOTES TO PHYSICIAN Treat symptomatically.

## Section 5 – FIRE FIGHTING MEASURES

Extinguishing media:

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### FIRE/EXPLOSION HAZARD:

Decomposes on heating to emit toxic oxides of nitrogen, phosphorus, carbon, potassium, and sulfur, as well as ammonia. High airborne dust concentrations have the potential for explosion.

### FIRE INCOMPATIBILITY

Avoid contamination with oxidizing agents i. e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result.

### PERSONAL PROTECTION:

Glasses: Chemical goggles.

Gloves: General purpose rubber glove..

Respirator: Particulate

## Section 6 – ACCIDENTAL RELEASE MEASURES

### MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing dust and contact with skin and eyes.
- Wear impervious gloves and safety glasses.
- Use dry clean up procedures and avoid generating dust.
- Sweep up, shovel up or
- Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
- Place spilled material in clean, dry, sealable, labelled container.

### MAJOR SPILLS

- Clear area of personnel and move upwind.
- If inhalation risk of exposure exists, wear SAA approved dust respirator.
- Prevent spillage from entering drains, sewers or water courses.
- Avoid generating dust.
- Collect recoverable product into labelled containers for recycling.
- If contamination of drains or waterways occurs, advise emergency services.

## Section 7 – HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

KEEP OUT OF REACH OF CHILDREN!

### STORAGE INCOMPATIBILITY

Avoid contamination of water, foodstuffs, feed or seed.

Avoid reaction with oxidizing agents, strong acid, hypochlorite.

### STORAGE REQUIREMENTS

Store in a cool, dry area away from incompatible materials and heat sources.  
Store  
away from feed and foodstuffs, as well as household cleaning products. KEEP  
OUT OF  
REACH OF CHILDREN!

## **Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limit values

No exposure limits have been set for these materials.

Exposure controls

These materials had no OELs

Personal protective

EYE/FACE PROTECTION

- Safety glasses with side shields
- Chemical goggles.

HANDS/FEET

Wear general protective gloves, e.g. light weight rubber gloves

Wear safety footwear.

OTHER

No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Barrier cream
- Eyewash unit.

RESPIRATOR

If airborne dust levels are high or product does not remain intact, use  
a combination

of engineering controls (e.g. ventilation) and personal protection to  
reduce exposures  
to acceptable levels.

## **Section 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical properties

Solid shapes. Soluble in water.

Molecular Weight: Not applicable. Boiling Range (° C): Not applicable.

Melting Range (° C): Not available. Specific Gravity (water=1): Not  
available.

Solubility in water (g/L): Insoluble pH (as supplied): Not applicable  
pH (1% solution): 6.5-7 Vapour Pressure (kPa): Negligible

Volatile Component (%vol): Not applicable. Evaporation Rate: Non Volatile

Relative Vapour Density (air=1): Not applicable. Flash Point (° C): None

Lower Explosive Limit (%): Not available. Upper Explosive Limit (%): Not  
available.

Autoignition Temp (° C): Not available. Decomposition Temp (° C): 198.

State: Manufactured

## **Section 10 – CHEMICAL STABILITY AND REACTIVITY INFORMATION**

Product is considered stable.

Hazardous polymerization will not occur.

Conditions to avoid

Extreme heat.

Materials to avoid

Strong oxidizing (permanganate, dichromate, nitrate, chlorine, hypochlorite), strong acid.

## **Section 11 – TOXICOLOGICAL INFORMATION**

No data

## **Section 12 – ECOLOGICAL INFORMATION**

Keep spills away from drinking water supplies.

## **Section 13 – DISPOSAL CONSIDERATIONS**

According to the European Waste Catalogue, Waste Codes are not product specific but

application specific. Waste Codes should be assigned by the User based on the

application in which the product is used.

Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill

disposal facility, in accordance with applicable federal, state, and local regulations.

## **Section 14 – TRANSPORTATION INFORMATION**

Not regulated for transport of dangerous goods: ADR, IATA, IMDG.

## **Section 15 – REGULATORY INFORMATION**

REGULATIONS

Humic acid (CAS:1415-93-6) is found on the following regulatory lists:  
IMO MARPOL 73/78 (Annex II) – List of Noxious Liquid Substances Carried in Bulk

International Council of Chemical Associations (ICCA) – High Production Volume List

OECD Representative List of High Production Volume (HPV) Chemicals United Nations Convention Against Illicit Traffic in Narcotic Drugs and Psychotropic

Substances – Table II.

No data available for Bentonite powder

This safety data sheet is in compliance with the following EU legislation

and its  
adaptations

-

as far as applicable - : 67/548/EEC, 1999/45/EC, 76/769/EEC,  
98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC, 1999/13/EC.

## **Section 16-OTHER INFORMATION**

**Further information** Copyright 2008 JINGCHENG IMPORT AND EXPORT COMPANY LIMITED. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. JINGCHENG IMPORT AND EXPORT COMPANY LIMITED shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.