



# Material Safety Data Sheet

MSDS No: SEEK14011MSDS

Issue Date: May.27<sup>th</sup>, 2014

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

### .Product details

.Trade name: Bamboo Vinegar (BBP No.11)

.Application of the substance: For Agriculture

### .Supplier/.Manufacturer:

SEEK BIO-TECHNOLOGY (SHANGHAI) CO., LTD.

BLDG. A7, NO.298, LANE 3509, SOUTH HONGMEI ROAD,

MINHANG DISTRICT, SHANGHAI, PR. CHINA

.Tel: +86-21-52962258

.Fax: +86-21-52962228

### .Further information obtainable from:

SEEK BIO-TECHNOLOGY (SHANGHAI) CO., LTD.

### .Information in case of emergency:

SEEK BIO-TECHNOLOGY (SHANGHAI) CO., LTD. Mr.

Shao

Tel: +86-21-52962258

Or call local POISON CONTROL CENTER

## 2 Hazards identification

### EMERGENCY OVERVIEW:

Not considered hazardous under normal conditions of use. Can release irritating and/or toxic fumes and vapors if involved in a fire or at high temperature.

### Acute health effects:

.Inhalation: Dust may cause respiratory tract and mucous membrane tract irritation due to mechanical action

.Eye: May cause eye irritation to due mechanical action.

.Skin: May cause skin irritation to due mechanical action..

.Ingestion: May be hazardous in case of ingestion.

### 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.

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### 3 Composition/information on ingredients

#### .Chemical characterization

.Description: Mixture of substances listed below.

Chemical Name	CAS:	Composition (in% by weight)
Water	7732-18-5	94
Acetic Acid	64-19-7	6

*Synonym:*

### 4 First aid measures

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

.Skin contact: 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. Wash clothing before reuse.

.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.

### 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.

#### .Suitable Extinguishing Agents:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

#### .Products of Combustion:

Irritating and toxic gases or fumes may be released during a fire.

#### .Special Fire Fighting Procedures:

Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear). Keep personnel removed and upwind of fire. Water should be used to keep fire-exposed containers cool.

#### .Special Remarks on Fire and Explosion Hazards:

Fire may produce irritating gases and dense smoke.

### 6 Accidental release measures

**General:** Use proper personal protective equipment as indicated in Section 8.

#### .Environmental precautions:

Not Available..

#### .Measures for Cleaning/Collection:

Vacuum um or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

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## 7 Handling and storage

**.Precautions:** Use proper personal protective equipment as indicated in Section 8.

**.Handling:** Keep away from heat. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, metals, acids. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, and can be dangerous. Avoid ingestion and inhalation.

**.Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool and dry place. Store in a tightly closed container. Keep from contact with oxidizing materials and flammables-area.

## 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.

### **.Exposure Limits:**

Not Available.

### **Personal Protection Equipment:**

**.Respiratory Protection:** None required under normal conditions of use. Wear approved respirator if exposure limits are exceeded

**.Ventilation Protection:** Local ventilation.

**.Protective Clothing:** Lab coat.

**.Protective Gloves:** Gloves.

**.Eye Protection:** Safety glasses.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Ventilation:**

**.Local exhaust:** MSHA/NIOSH approved respirator. Appropriate respirator depends upon type and magnitude of exposure.

## 9 Physical and chemical properties

### .General Information

Form:	Liquid
Color:	Nigger-Brown
Odor:	Vinegar
.Change in condition	
Melting point/Melting range:	0 degree C
Boiling point/Boiling range:	100 degree C
.Flash point:	Not Applicable.
.Self-igniting:	Not Applicable.
.Danger of explosion:	Not Happen.
.Density:	1.05 g/cm <sup>3</sup>
.Relative density:	N/A (Water = 1)
.Vapor density:	Not Available
.Vapor Pressure:	Not Available
.Evaporation rate:	Not Available
.Solubility in/Miscibility with Water or others	Soluble in water
.PH-Value:	2.7-3.1
.Viscosity:	Not Applicable

## 10 Stability and reactivity

### .Stability:

Stable.

### .Polymerization:

Will not occur.

### .Dangerous Decomposition Products:

Not available.

### .Incompatibility:

Oxidizing agents.

### .Conditions to avoid:

Incompatible materials, dust generation, high temperature, fire source/spark.

### .Special Remarks on Reactivity:

Not available.

## 11 Toxicological information

.Please refers to section 3 for hazards identification.

.Routes of Entry: Absorbed through skin, Dermal contact, Eye, Inhalation

### .Toxicity to Animals:

Not Available.



**.Chronic Effects on Humans:** Not available.

**.Other Toxic Effects on Humans:** Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact.

**.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 Effects:** Not available.

**.BOD5 and COD:** Not available.

**.Bioaccumulation:** No specific information available.

**.Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**.Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

## 13 Disposal considerations

### **.General Information :**

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:**

Dispose according to Federal, State, Provincial and Local regulations.

## 14 Transport information

This product is not regulated as a hazardous material for transport.

Not a DOT, IMDG and IATA controlled material (United States).

**Proper Shipping Name:** Not regulated.

**Hazard Class:** Not regulated. **UN.**

**NO.:** Not regulated. **Packing Group:**

Not regulated. **IMDG EMS:** Not regulated.

## 15 Regulatory information

### **European/International Regulations**

This product is on the European Inventory of Existing Commercial Chemical Substances.

### **European Labeling in Accordance with EC Directives**

#### **Hazard Symbols:**

N/A

#### **Risk phrases:**

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N/A

**Safety phrases:**

N/A

**HMIS (U.S.A.):**

**Health Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** H

**National Fire Protection Association(U.S.A.):**

**Health:**2

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Federal and State Regulations:**

Not Listed.

**Canada–WHMIS:**

Not controlled under WHMIS (Canada).

**For details regulations you should contact the appropriate agency in your country.**

**16 Other information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**.Emergency Telephone Number:**

Tel: +86-21-52962258

**.Department issuing MSDS:**

SEEK BIO-TECHNOLOGY (SHANGHAI) CO., LTD.

**.Contact:|**

Mr. Shao



\*\*\*\*\*The End\*\*\*\*\*