SAFETY DATA SHEET

1.PRODUCT IDENTIFICATION

1.1.Product Name: Humic acid

1.2.Catalog Number: APL-1415936

1.3.Indentified uses: Laboratory chemicals, manufacture of chemical compounds

1.4.Details of the supplier of the safety data sheet

♦**Company: APOLO Biochemical, Inc**

575 ELMWOOD AVE.
MC56940A, ROCHESTER,
NY 14642, USA

♦**Customer Information E-mail:** info@apolobiochem.com / order@apolo.com.tw

2.HAZARDS IDENTIFICATION

2.1.GHS Classification in accordance with 29 CFR 1910 (OSHAHCS)

Skin corrosion/irritation,(Category 2), H315

Serious eye damage/eye irritation,(Category 2A), H319

Specific target organ toxicity, single exposure; Respiratory tract irritation,(Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

Pictogram	
Signal Word	warning
Hazard statements	
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.Hazards not otherwise classified (HNOC) or not covered by GHS - none

3.COMPOSITION/INFORMATION ON INGREDIENTS

Substances Humic acid

Synonyms No data available

Formula N/A

Molecular Weight N/A

CAS Number	Description	Concentration
1415-93-6	Humic acid	FA ≥90%

4.FIRST AID MEASURES

4.1.Description of first aid measures

♦**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

♦**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

♦**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

♦**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5.FIRE FIGHTING MEASURES

5.1.Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2.Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas.

6.ACCIDENTAL RELEASE MEASURES

6.1.Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

7.HANDLING AND STORAGE

7.1.Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

For precautions see section 2.

7.2.Conditions for safe storage, including any incompatibilities.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8..EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1.Components with workplace control parameters.

Contains no substances with occupational exposure limit values.

8.2.Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3.Personal protective equipment

♦Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

♦Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

♦Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

♦Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

♦Control of environmental exposure

Do not let product enter drains.

9.PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance / Form:	solid
Odor	no data available

Odor Threshold	no data available
pH	no data available
Melting point	no data available
Boiling point/range	no data available
Melting point/range	no data available
Flash point	no data available

10.STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	no data available
In the event of fire	see section 5

11.TOXICOLOGICAL INFORMATION

Acute toxicity Oral Rat LD50>11,500mg/kg

Respiratory or skin sensitization The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Germ cell mutagenicity no data available

Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Additional Information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12.ECOLOGICAL INFORMATION

Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available

Mobility in soil	no data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	no data available

13.DISPOSAL CONSIDERATIONS

Waste treatment methods	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

14.TRANSPORT INFORMATION

DOT (US)	This substance is considered to be non-hazardous for transport.
IMDG	This substance is considered to be non-hazardous for transport.
IATA	This substance is considered to be non-hazardous for transport.

15.REGULATORY INFORMATION

SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16.OTHER INFORMATION

Product has not been fully validated for medical applications. For research use only.

16.1.Prepared by: APOLO Biochemical, Inc.

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. APOLO shall not be held liable for any damage resulting from handling or contact with the above product.