

Material Safety Data Sheet

Product Name **Green Age soil conditioner**

– supplement for soil improvement and plant growth, containing Humic and Fulvic acids

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Company Details

Company Name	Growth Technology Ltd	
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Identification

Product Name: Green Age soil conditioner

Common Name:	Humic Acids-K salts (modified lignite)		
Chemical Formula:	Amorphous Polymer		
Synonym:	(See above)		
Chemical Family:	Wood Chemicals		
Shipping Name:	Lignin Pitch - Class 55		
CAS Numbers:	68514-28-3		
Hazard Class - DOT:	Not restricted		
UN Number:	Excluded		
Hazard Class - IATA:	Not restricted		
Physical state:	Liquid		
HMIS Rating (0 - 4)	Health = 1	Fire = 1	Reactivity = 0 Special = 0

Warning: Nuisance dust - As with all dusts, avoid high concentrations

Product Use: Concentrated solution of mineral nutrients for plants in hydroponic growing systems

Hazardous Ingredients

<u>Principle Hazardous Components</u>	<u>Percent</u>	<u>Threshold Limit value (units)</u>
None known		

Hazards Identification

Threshold Limit Values:	OSHA PELV = Non Established
Carcinogen Listings - NTP / IARC	Not a carcinogen
Primary Route(s) if Entry:	Skin contact, eye contact, inhalation
Symptoms of Overexposure:	None known
Conditions Aggravated by Exposure:	None known
Irritancy to Material:	None known
Sensitization to Material:	None known
Teratogenicity:	None known
Mutagenicity:	None known
Reproductive Toxicity:	None known
Synergistic Substances:	None known

First Aid Measures

First Aid -	Eyes:	Irrigate with potable water
	Skin:	Skin should be flushed with clean water
	Inhalation:	Remove from dusty area
	Ingestion:	Give water to dilute and seek medical attention

Note to physician: Very low toxicity

Fire Fighting Measures

Flash Point (Method Used): Not Applicable	Auto Ignition Temp: 400 C for dust
Flammable Limits in Air, % By Volume:	Lower / Upper Not Applicable
Extinguishing Media:	None
Special Fire Fighting Procedures:	None
Special Fire Fighting Procedures:	None

Accidental Release Measures

Spill Response:	Mechanically collect and remove spilled material. Areas may be washed with water.
Neutralizing Chemicals:	None required.
Waste Disposal Methods:	Incinerate, bury, or flush to sewer following applicable regulations.

Handling & Storage

Store in a cool place.

Exposure Controls / Personal Protection

Hand Protection:	Use of rubber gloves is recommended
Eye Protection:	Wear safety goggles to prevent splashing eyes

Physical & Chemical Properties

Boiling Point:	104 C	Specific Gravity (25C)	1.15
Freezing Point:	-2 C	pH	9
Vapor Pressure (mm Hg)	14.2 @ 20 C	Bulk Density (g/ml):	N/A
Vapor Density (Air=1)	1.21 @ 20 C	Solubility in Water	100%
% Volatilities by Weight	80 (Water)	Evaporation rate	Normal 0.4 (water)
Appearance & Odor:	Brown Liquid with slight odor		
Water/Oil Dist. Coeff.:	100% in water		

Stability & Reactivity

Stability:	Stable
Conditions to Avoid:	Contact with strong oxidizing agents
Incompatibility:	None
Materials to Avoid:	None
Hazardous Polymerization:	Will not occur
Conditions to avoid:	None
Hazardous Decomposition Products:	Sulphur dioxide, carbon dioxide, and carbon monoxide

Toxicological Information

Health Effects:	No known ill effects.
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Ecological Information**Spill or Leak Procedures**

Spill Response:	Mechanically collect and remove spilled material. Areas may be washed with water.
Neutralising Chemicals:	None required.
Waste Disposal Methods:	Incinerate, bury, or flush to sewer following applicable regulations.

Disposal Considerations

Flush container with clean water and dispose of responsibly.

Transport Information

Not applicable

Regulatory Information

Not applicable

Other Information**Control Measures**

Ventilation Requirements:	Adequate ventilation for comfort is recommended
Respiratory Protection:	Full respiratory protection program recommended
Protective gloves:	Gloves recommended for prolonged exposure
Eye Protection:	Goggles recommended for prolonged exposure
Other Protective equipment:	Clothing which contacts skin should be changed daily

Special Precautions

Repair/Maintenance of Contaminated Equipment:	None required
Hygiene in Handling an Storage:	Personal hygiene is encouraged

Other: Normal precautions common to good manufacturing practice should be followed.

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Published in accordance with Regulation 6 of the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.