

Material Safety Data Sheet	Product Identity	VFI Humic Acid® [CAS 68131-04-4]
-----------------------------------	------------------	---

Section I

Manufacturer's Name Laub BioChemicals Corp.	Emergency Telephone Number (949) 476-9883
Address 1401 Quail St., Ste. 121 Newport Beach, CA 92660	Telephone Number for Information (888) 66-HUMIC
	Date Prepared 28-Oct-02

Section II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH	Other Limits	%
Potassium Hydroxide	N/est.	2 mg/m ³	N/A	-
Ammonium Hydroxide	50 ppm	25 ppm	N/A	-
Humic acid (Phenolic Hydrocarbons)	N/A	N/A	N/A	100

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	>300°C
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Soluble in warm water; aqueous base		
Appearance	Black Powder		

Section IV - Fire and Explosion Hazard Data

Flash Point	N/A	Flammable Limits	LEL: N/A	UEL: N/A
Extinguishing Media	Water Fog, Foam, Dry Chemical, CO ₂			
Special Firefighting Procedures	None			

Section V - Reactivity Data

Stability	Stable
Incompatibility	Incompatible with strong oxidizing agents
Hazardous Decomposition Byproducts	CO, CO ₂ at extreme temperatures
Hazardous Polymerization	Will not occur

Section VI - Health Hazard Data

Routes of Entry	Inhalation, ingestion, skin absorption
Health Hazards	Can cause eye and skin irritation. Can be Irritating to mucous membranes and upper respiratory tract. IPR-MUS LD ₅₀ : 1176 mg/kg (YHTPAD 18, 180, 1983)
Carcinogenicity	Not known to be carcinogenic or teratogenic
Signs and Symptoms of Exposure	Possible skin reddening if not washed off affected area; possible lung congestion if dust inhaled
Medical Conditions Generally Aggravated	None known
Emergency and First Aid Procedures	Eyes-flush with water for 15 minutes. Skin-wash with soap and water. Inhaled-remove to fresh air. Swallowed-wash out mouth with water provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

Section VII - Precautions for Safe Handling and Use

Small spills should be picked up with wet paper towels or a damp mop. Large spills should be swept up or vacuumed, placed in a bag, and held for waste disposal or reclamation.	
Waste Disposal	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
Precautions for Handling and Storage	Persons handling product should use proper protective equipment, including chemical safety goggles and rubber gloves. Avoid dust inhalation. Keep containers tightly closed. Store in a cool dry place. Eye bath, shower, and oxygen mask should be available on-site.