

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List) Rayplex Iron	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Section I	
Manufacturer's Name <u>Lignotech/Ruffin Micronutrients</u>	Emergency Telephone Number
Address (Number, Street, City, State, and ZIP Code) P.O. Box 940	Telephone Number for Information (800) 535-7479
Dodge City KS 67801	Date Prepared 8-9-91
Signature of Preparer (optional)	

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (optional)
none Known

Section III — Physical/Chemical Characteristics

Boiling Point n/a	Specific Gravity ($H_2O = 1$) n/a	
Vapor Pressure (mm Hg.)	Melting Point n/a	
Vapor Density (Air = 1)	Evaporation Rate (Butyl Acetate = 1)	

Solubility in Water
complete

Appearance and Odor

Brownish powder with slight odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used): glowing combustion temp. 990deg.

Extinguishing Media

Water or CO_2 foam

Special Fire Fighting Procedures
none needed

Unusual Fire and Explosion Hazards

May form explosive mixture with air. Lower explosive limit 0.0433 oz. cu. ft.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid Strong oxidizing agent
	Stable		

Incompatibility (Materials to Avoid)
none known

Hazardous Decomposition or Byproducts
sulfur dioxide

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur		

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)
Acute: Studies to determine acute oral toxicity of lignosulfonates to rats produced no death from which an LD₅₀ could be determined.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

Medical Conditions
Generally Aggravated by Exposure

Emergency and First Aid Procedures
Eyes: irrigate with potable water. Skin: skin should be flushed with clean water.

Inhalation: remove from dusty area. Ingestion: Induce vomiting.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

1) Mechanically collect and remove spilled material.

2) Area may be flushed and washed with water if desired

Waste Disposal Method
Sweep up and bury or incinerate or flush to sewer. Disposal of all waste materials must be in accordance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing
Store in dry area to protect from caking.

Other Precautions
none

Section VIII — Control Measures

Respiratory Protection (Specify Type)

use standard dust mask

Ventilation	Local Exhaust: minimize dust	Special
	Mechanical (General)	Other

Protective Gloves
recommended for prolonged exposure

Eye Protection
goggles

Other Protective Clothing or Equipment

Work/Hygiene Practices
Personal hygiene should be encouraged so that all clothing items which contact the skin are changed daily.