

# MATERIAL SAFETY DATA SHEET

## FOLI-GRO Formula 531

### I. NAME

PRODUCT/TRADE NAME: FOLI-GRO FORMULA 531  
EPA REGISTRATION #: NONE  
CHEMICAL NAME/COMMON NAME:  
Zinc Sulfate/Zinc Sulfate  
Manganese Sulfate/Manganese Sulfate  
Ferrous Sulfate/Iron Sulfate

### II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Zinc Sulfate	7733-02-0	NE	NE
Manganese Sulfate	7785-87-7	NE	NE
Iron Sulfate	7720-78-7	NE	NE

### III. PHYSICAL DATA

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.1419  
MELTING POINT: NA  
VAPOR DENSITY (AIR = 1): NE  
% VOLATILES BY VOL.: NE  
ODOR: Musty  
APPEARANCE: Black Liquid  
FLASH POINT/METHOD: NA  
VAPOR PRESSURE (mmHg): NE  
SOLUBILITY IN H<sub>2</sub>O: Soluble

### IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA:  Water Fog  Foam  Alcohol Foam  
 CO<sub>2</sub>  Dry Chemical  Other

#### FIRE FIGHTING PRECAUTIONS & HAZARDS:

Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective equipment. Avoid breathing smoke or mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

### V. CARCINOGEN STATUS

OSHA  NTP  IARC  No Listing Type

### VI. REACTIVITY

Stable HAZARDOUS POLYMERIZATION  
 Unstable  May Occur  Will Not Occur

AVOID: Aluminum, steel

HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>x</sub>, ZnO, SO<sub>x</sub>

### VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate personal protective equipment. Absorb with inert material and vacuum or sweep into an approved disposal container.

DECONTAMINATION: Treat spill area with detergent and water. Absorb with inert material and place in approved disposal containers. Repeat as necessary until area is clean.

ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses.

DISPOSAL: Place in accordance with federal, state and local regulations.

### VIII. HEALTH PRECAUTION DATA

INGESTION: Do not ingest. Wash thoroughly before eating, drinking or smoking.  
INHALATION: No PEL/TLV established for this product. Can irritate the respiratory tract. Do not breathe spray mist. Use proper respiratory protection for the exposures encountered.

SKIN ABSORPTION: Avoid contact with skin. Can cause skin irritation. Wear proper personal protective equipment to reduce exposure.

EYE EXPOSURE: Keep out of eyes. Can cause eye irritation. Wear proper eye protection. If exposed, flush eyes for a minimum of 15 minutes with water.

EFFECTS OF OVEREXPOSURE: Can cause skin, eye, respiratory and gastrointestinal tract irritation. Overexposure can cause vomiting, diarrhea and gastrointestinal disturbances. No known chronic effects. Preexisting medical conditions involving the above symptoms may be aggravated by exposure.

FIRST AID: In all cases, get prompt medical attention. If ingested, give several

glasses of water and induce vomiting. Do not induce vomiting if person is unconscious. For skin exposure, remove contaminated clothing and wash with soap and water. For eye exposure, flush eyes with water for a minimum of 15 minutes. If inhaled, remove victim to fresh air, and administer CPR if necessary.

### IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Recommend use of NIOSH/MSHA - approved respirator for organic vapors for the exposures encountered. Positive pressure self-contained breathing apparatus should be used for confined space entry and high exposure operations.

PERSONAL PROTECTIVE EQUIPMENT: Neoprene or rubber gloves, long-sleeved coveralls and chemical goggles.

VENTILATION: General sufficient for intended use.

### X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions. Store in tightly closed containers. Do not store in steel or aluminum tanks.

### XI. REGULATORY DATA

SARA HAZARD CLASS:  Acute  Chronic  Flammable  
 Pressure  Reactive  None

SARA 313:  Yes  No Chemical: Zn, Fe & Mn Compounds

SARA 302:  Yes  No Chemical:

TPQ:

CERCLA:  Yes  No Chemical: Zn Sulfate, Ferrous Sulfate

RQ: 1000\*, 1000\*

RCRA:  Yes  No

NFPA HAZARD RATING:

Health: [1] 0 = Minimal 3 = Serious

Fire: [1] 1 = Slight 4 = Severe

Reactivity: [0] 2 = Moderate

Special: [ ]

HMIS CODES:

Health: [1] 0 = Minimal 3 = Serious

Fire: [1] 1 = Slight 4 = Severe

Reactivity: [0] 2 = Moderate

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\*Technical Material NE - Not Established NA - Not Applicable

24 Hour Emergency Phone Number  
CHEMTREC: (800) 424-9300



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