

MATERIAL SAFETY DATA SHEET

Link 4 Iron SP

I. NAME

PRODUCT/TRADE NAME: LINK 4 IRON SP
EPA REGISTRATION #: NONE
CHEMICAL NAME/Common Name:
Ammonium Sulfate/Ammonium Sulfate
Magnesium Sulfate/Magnesium Sulfate
Zinc Sulfate/Zinc Sulfate
Manganese Sulfate/Manganese Sulfate
Ethylenediaminetetraacetic Acid Iron/Iron EDTA

II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Ammonium Sulfate	7778-80-5	NE	NE
Magnesium Sulfate	7487-88-9	NE	NE
Zinc Sulfate	733-02-0	NE	NE
Manganese Sulfate	7785-87-7	5mg/m ³	5mg/m ³
Iron EDTA	15708-41-5	NE	NE

III. PHYSICAL DATA

SPECIFIC GRAVITY (H₂O = 1): 1.0-1.2 g/ml (tapped 1.14 g/ml)
MELTING POINT: NA
VAPOR DENSITY (AIR = 1): NA
% VOLATILES BY VOL.: NA
ODOR: None
APPEARANCE: Blend of crystals and powders
FLASH POINT/METHOD: NA
VAPOR PRESSURE (mmHg): NA
SOLUBILITY IN H₂O: Soluble

IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA: Water Fog Foam Alcohol Foam
 CO₂ 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, copper, flammable organics or high temperatures
HAZARDOUS DECOMPOSITION PRODUCTS: CO_x, NO_x, ZnO, NH₃, SO_x

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 disposal container. DECONTAMINATION: Treat spill area with detergent and water. Absorb with inert material and place in disposal containers. Repeat as necessary until area is clean. ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses. DISPOSAL: Dispose of in accordance with Federal, state and local regulations.

VIII. HEALTH PRECAUTION DATA

INGESTION: Do not ingest. Wash thoroughly before eating, drinking or smoking. INHALATION: PEL/TLV for Iron Sulfate is 1 mg/m³. PEL/TLV for Manganese Sulfate is 5 mg/m³. Do not breathe spray mist. Wear 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 and eye irritation. Ingestion can cause violent vomiting and diarrhea. Symptoms of overexposure can include mask-like facial expression, spastic gate, tremors, slurred speech, fatigue and insomnia.

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 up to 10 times the PEL/TLV. 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 ventilation sufficient for intended use.

X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions. 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, Mg, Mn, Fe Compounds

SARA 302: Yes No Chemical:

TPQ:

CERCLA: Yes No Chemical: Ferrous Sulfate, Zinc Sulfate

RQ: 1000*, 1000*

RCRA: Yes No

NFPA HAZARD RATING:

Health: [2]
Fire: [1]
Reactivity: [0]
Special: []

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious
1 = Slight 4 = Severe
2 = Moderate

HMS CODES:

Health: [2]
Fire: [1]
Reactivity: [0]

HMS HAZARD RATING SCALE:

0 = Minimal 3 = Serious
1 = Slight 4 = Severe
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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