Safety Data Sheet				
1. PRODUCT AND COM	PANY IDENTIFICATION			
Formula: CAS No.:	<b>Fast Acting Iron<sup>II</sup></b> Iron Oxide Black + Sulfur + Calcium Sulfate Dihydrite + Lignosulfonate+ Anionic Polyacrylamide N/A Fertilizer; Soil Amendment			
Company Identification:	Encap, LLC 3921 Algoma Road Green Bay, WI 54311 Phone: (877) 405-5050			
2. HAZARDS IDENTIFIC	ATION			
HMIS Classification Health Hazard: Chronic Health Hazard: Flammability: Physical Hazards: Personal Protection:	FIRE 0 REACTIVITY 0 REACTIVITY 0 REACTIVITY 0			
<b>GHS Labeling</b> Symbol: Exclamation Signal Word: Warning	n mark			
Hazard Statements:	•			
H315	Causes skin irritation			
H320	Causes eye irritation			
H335	May cause respiratory irritation			
H303	May be harmful if swallowed			
Precautionary Stateme	ents: P 261 Avoid breathing dust			
Hazards Not Otherwise	e Classified: Unknown			
OSHA Hazards No known OSHA hazard	ls			
Target Organs Skin, eyes, and respirate	ory system.			
exposures ir Skin: May cause s Eyes: May cause s Ingestion: May be harr	respiratory tract irritation. Coughing, sneezing, or shortness of breath may occur following n excess of exposure limits. skin irritation.			

# Encap, LLC Fast Acting Iron<sup>II</sup> SDS

# 3. COMPOSITION

Chemical Identity: Common Name: CAS No.:		51.7%
Chemical Identity: Common Name: CAS No.:		27.1%
Chemical Identity: Common Name: CAS No.:		10.4%
	Iron Compounds Iron Oxide Black 1309-38-2	9.0%
Chemical Identity: Common Name: CAS No.:		1%
Common Name:	Anionic Polyacrylamide Anionic Polyacrylamide 9003-05-8	0.9%

#### 4. FIRST AID MEASURES

#### EYE:

Symptoms: May cause eye irritation.

Irrigate immediately. If this product contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention if needed.

### SKIN:

Symptoms: May cause skin irritation.

Wash skin immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if needed.

#### INHALATION:

Symptoms: May cause respiratory tract irritation. Coughing, sneezing, or shortness of breath may occur following exposures in excess of exposure limits.

Fresh air. If a person breathes in large amounts of this product, move to fresh air at once. If not breathing, give artificial respiration. Get medical attention if needed.

### INGESTION:

Symptoms: May be harmful if swallowed. May cause gastrointestinal tract irritation. Intestinal obstruction may occur if the material hardens.

Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if needed.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

A fine water spray, fog, CO<sub>2</sub> or dry chemical.

#### Unsuitable Extinguishing Media

Hoses and extinguishers with pressure streams should be avoided where solid sulfur is dusty or where it may create a further hazard by raising more dust clouds.

#### Special Protective Equipment for Fire-Fighters

Self-contained breathing apparatus and full protective clothing. Masks approved for use in acid-gas atmosphere should be used. Note: Aqueous solutions or powders may render surfaces slippery.

# 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions**

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation.

#### **Environmental Precautions**

Prevent product from entering drains.

#### Methods and Materials for Containment and Clean-up

Sweep spilled substance into containers; avoid generating dust. Reuse if not contaminated.

# 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Eating, drinking, and smoking should be prohibited in areas where this material is handled or stored. Do not ingest and avoid contact with skin and eyes. Avoid breathing in dust. Wear appropriate respirator when ventilation is inadequate.

#### **Recommended Conditions for Storage**

Store in a cool, dry, well ventilated location. Do not store near aluminum (at high temperatures), diazomethane, oxidizing agents or other incompatible materials. Keep away from moisture.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

	CAS No.	ACGIH TLV	OSHA/PEL
Iron Oxide Black	1309-38-2	5 mg/m <sub>3</sub>	10 mg/m3 (as Fe2O3)
Sulfur	7704-34-9	none	none
Inert ingredients/filler	No CAS No.	none	none
Calcium sulfate dihydrate (gypsum)	10101-41-4	10 mg/m <sub>3</sub>	15 mg/m <sub>3</sub> (total)
Anionic Polyacrylamide	9003-05-8	none	none
Lignosulfonate	8061-52-7	none	none

#### Engineering Controls

Local exhaust ventilation recommended. Running water should be available in case material gets in eyes. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Handling equipment must be grounded or bonded to avoid static electricity. Wash clothing before reusing. Sulfur impregnated clothing should not be worn.

# Personal Protective Equipment

<u>Respiratory Protection</u> A NIOSH (US) or CEN (EU) approved particulate respirator is recommended where total dust concentration exceeds 10 mg/m<sup>3</sup>. Avoid breathing dust.

# Hand Protection

Rubber, neoprene, vinyl, or nitrile gloves.

# Skin and Body Protection

Long sleeves or lab coat and long pants are recommended.

#### Eye Protection

NIOSH (US) or CEN (EU) approved safety glasses with side shields, goggles, or face shield are recommended.

flame, static electricity, or any other potential ignition source.

9. PHYSICAL AND CHEI	MICAL PROPERTIES
	Brown and black granular and pellet mix
	Mineral
Odor threshold:	Unknown
	Neutral
Melting Point:	Approximately 246° F
Freezing Point:	
Evaporation Rate:	
	Not Flammable
Explosion Limits:	
Vapor Pressure:	
Vapor Density:	
Specific Gravity:	
Solubility in Water:	
Partition coefficient:	Unknown
Auto-ignition temp.:	
Decomposition temp.:	Unknown
Viscosity:	
Other:	Unknown
10. STABILITY AND REA	ACTIVITY
Chemical Stability:	Stable under recommended storage conditions. Avoid excess sources of ignition, heat, and incompatible materials. Dust suspended in air is readily ignited.
Conditions to Avoid:	Oxidizing agents, aluminum (at high temperatures), diazomethane, heat, sparks, open

Hazardous Decomposition Products: Thermal decomposition may produce: sulfur dioxide, calcium oxide,

nitrogen oxides, carbon oxides, sulfur oxides, and hydrogen cyanide.

# Encap, LLC Fast Acting Iron<sup>II</sup> SDS

TOXICOLOGICAL INFORMATION	
Likely Routes of Exposure	
Eyes, skin, ingestion, and inhalation.	
Potential Health Effects	
Inhalation: May cause respiratory tract irritation. Coughing, sne	
occur following exposures in excess of exposure limi Ingestion: May be harmful if swallowed. May cause gastrointes	
obstruction may occur if the material hardens.	
Skin: May cause skin irritation.	
Eyes: May cause eye irritation.	
Acute Toxicity No data available.	
Reproductive Toxicity No data available.	
Germ Cell Mutagenicity No data available.	
Specific target organ toxicity - single exposure Adverse health effects are not expected under normal use.	
Specific target organ toxicity - repeated exposure No data available.	
Carcinogenicity	
IARC: No component of this product present at levels greater than or eq	ual to 0.1% is identified as probable, possible,
or confirmed human carcinogen by IARC.	IARC = International Agency for Research on Cancer
ACGIH: No component of this product present at levels greater than or eq potential carcinogen by ACGIH.	ual to 0.1% is identified as carcinogen or ACGIH = American Conference of Industrial Hygienists
<b>NTP:</b> No component of this product present at levels greater than or eq	
anticipated carcinogen by NTP.	NTP = National Toxicology Program
OSHA: No component of this product present at levels greater than or eq potential carcinogen by OSHA.	ual to 0.1% is identified as carcinogen or OSHA = Occupational Safety and Health Administration
ECOLOGICAL INFORMATION	
Toxicity	Mobility
Not applicable	Water contaminating.
Persistence and Degradability	PBT and vPvB Assessment
No data available.	Not applicable.
Bioaccumulative Potential	Other Adverse Effects
Not applicable.	No data available.
DISPOSAL CONSIDERATIONS	
May be disposed of as an inert solid in sanitary landfill or by other procedures and local regulations.	s in accordance with all federal, state
TRANSPORT INFORMATION	
DOT (US)	
This material is not regulated by the DOT.	
IMDG	
This material is not regulated by the IMDG.	
IATA	

# Encap, LLC Fast Acting Iron<sup>II</sup> SDS

# **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

None of the chemicals in this product are listed as highly hazardous by OSHA.

#### **DSL Status**

Iron oxide black and sulfur are on the Canadian Domestic Substance List (DSL) list.

## SARA 302 Compounds

No chemicals in this material are subject to SARA Title III, Section 302 reporting.

#### SARA 313 Compounds

No chemicals in this material are subject to the reporting requirements of Section 313 of SARA.

#### SARA 311/312 Hazards No chemicals in this material are subject to Section 311/312 of SARA.

Massachusetts Right To Know

Gypsum and sulfur are listed by the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Gypsum and sulfur are listed by the Pennsylvania Right to Know Act.

New Jersey Right To Know Gypsum and sulfur are listed by the New Jersey Right to Know Act.

## California Proposition 65

This product contains a known to the State of California to cause cancer: Residual Acrylamide.

# **16. OTHER INFORMATION**

No data is available, per 29 CFR 1910.1200(d)(b); health hazards are based upon all of the components which make up the mixture.

The above information is believed to be correct, but is not purported to be all-inclusive and should only be used as a guide. Because data, safety standards, and regulatory inputs are subject to change, no warranty, guarantee, or representation with respect to the completeness or continuing accuracy of the information contained in this document is made. The user of this product must decide what safety measures are necessary to safely use this product; the conditions of handling and use, or misuse, are beyond the control of Encap, LLC. The user is also responsible to determine its environmental regulatory compliance obligations under any applicable federal or state laws.