

# MANGANESE 5% EDTA

POWERAG™

## SAFETY DATA SHEET

according to Federal Register Vol. 77, No. 58  
Monday, March 26, 2012  
Rules and Regulations  
Revisions: March 13, 2024

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Product name:** Manganese 5% EDTA

#### 1.2. Recommended use of the chemical and restrictions on use

**Recommended use:** Fertilizer

#### 1.3. Details of the supplier of the safety data sheet

PowerAG

2213 Leabrook Road, Lancaster PA 17601

1-800-842-2578 powerag.com

#### 1.4. Emergency telephone number

**Emergency number:** 1-800-424-9300 ChemTrec

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other uses of this product.

**Appearance:** Red liquid

**Physical state:** Liquid

**Odor:** Odorless

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Mixture

Chemical Name	CAS No	Weight-%
Manganese Dipotassium EDTA	68015-77-0	45-50

If Chemical Name/CAS No is proprietary and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**General advice:** Provide this SDS to medical personnel for treatment.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek medical attention.

**Skin contact:** Wash with soap and water. Wash contaminated clothing before reuse. If irritation occurs, get medical advice/attention.

**Inhalation:** Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

**Ingestion:** Dilute with water. Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** Prolonged or repeated skin contact may cause irritation. Contact with eyes may cause pain and irritation. May cause respiratory irritation. Ingestion of large amounts may cause gastrointestinal discomfort.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water. Dry extinguishing media. Carbon dioxide (CO<sub>2</sub>). Foam.

**Unsuitable extinguishing media:** Not determined.

## 5.2. Specific hazards arising from the chemical

Not determined.

## 5.3. Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NOISH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use personal protective equipment as required.

### 6.2. Environmental precautions

**Environmental precautions:** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for clean-up:** Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials:** Strong oxidizing agents. Strong reducing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese Dipotassium EDTA 68015-77-0	–	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn

### 8.2. Appropriate engineering controls

**Engineering controls:** Apply technical measures to comply with the occupational exposure limits.

### 8.3. Individual protection measures, such as personal protective equipment

**Eye/face protection:** Chemical splash goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and body protection:** Impervious gloves, coveralls, boots and/or other achemical resistant protective clothing.  
Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory protection:** If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical state:** Liquid.

**Appearance:** Red liquid.

**Color:** Red.

**Odor:** Odorless.

**Odor threshold:** Not determined.

### 9.2. Properties, values, and remarks/method

Property	Values	Remarks • Method
pH	4.5–5.5	
Melting point / freezing point	Not determined.	
Boiling point / boiling range	103 °C / 217 °F	
Flash point	Not determined.	
Evaporation rate	Not determined.	
Flammability (solid, gas)	Liquid— not applicable.	

## 9.2. Properties, values, and remarks/method continued

Property	Values	Remarks • Method
Flammability limited in air	Not determined.	
Upper flammability or explosive limits	Not determined.	
Lower flammability or explosive limits	Not determined.	
Vapor pressure	Not determined.	
Vapor density	Not determined.	
Density	1.27 kg/L	
Water solubility	Not determined.	
Solubility in other solvents	Not determined.	
Partition coefficient	Not determined.	
Autoignition temperature	Not determined.	
Decomposition temperature	Not determined.	
Kinematic viscosity	Not determined.	
Dynamic viscosity	Not determined.	
Explosive properties	Not determined.	
Oxidizing properties	Not determined.	

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No additional information available.

### 10.2. Chemical stability

Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

### 10.4. Conditions to avoid

Keep out of reach of children.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents.

### 10.6. Hazardous decomposition products

None known based on information supplied.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on likely routes of exposure

#### Product information

**Eye contact:** Avoid contact with eyes.

**Skin contact:** Avoid contact with skin.

**Inhalation:** Do not inhale.

**Ingestion:** Do not ingest.

### 11.2. Component information

**Sodium Sulfate** 7757-82-6 | **Oral LD50** >10000 mg/kg (rat) | **Dermal LD50** – | **Inhalation LC50** –

### 11.3. Symptoms related to the physical, chemical, and toxicological characteristics

**Symptoms:** Please see section 4 of this SDS for symptoms.

### 11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity:** Based on the information provided, this product does not contain any carcinogens or potential carcinogens listed by OSHA, IARC, or NTP.

### 11.4. Numerical measures of toxicity

Not determined.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Ecotoxicity

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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### 12.2. Component information

**Chemical name:** Sodium Sulfate 7757-82-6

**Algae/aquatic plants:** –

**Fish:** 3040 - 4380: 96 h *Lepomis macrochirus* mg/L LC50 static 13500: 96 h *Lepomis macrochirus* mg/L LC50 13500 - 14500: 96 h *Pimephales promelas* mg/L LC50 6800: 96 h *Pimephales promelas* mg/L LC50 static

**Crustacea:** 630: 96 h *Daphnia magna* mg/L EC50 2564: 48 h *Daphnia magna* mg/L EC50

### 12.3. Persistence/degradability

Not determined.

### 12.4. Bioaccumulation

There is no data for this product.

### 12.5. Mobility

Not determined.

### 12.6. Other adverse effects

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

**Contaminated packaging:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### 14.2. DOT

Not regulated.

### 14.3. IATA

Not regulated.

### 14.4. IMDG

Not regulated.

## SECTION 15: REGULATORY INFORMATION

### 15.1. International inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Manganese Dipotassium EDTA	x	Active	x	x		x			
Sodium Sulfate	x	Active	x	x	x	x	x	x	x

#### LEGEND:

**TSCA:** United States Toxic Substances Control Act Section 8(b) inventory

**DSL/NDSL:** Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS:** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS:** Japan Existing and New Chemical Substances

**IECSC:** China Inventory of Existing Chemical Substances

**KECL:** Korean Existing and Evaluated Chemical Substances

**PICCS:** Philippines inventory of Chemicals and Chemical Substances

**AICS:** Australian Inventory of Chemical Substances

### 15.2. US Federal Regulations

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals, which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	CAS No	Weight-%	SARA 313—Threshold Values %
Manganese Dipotassium EDTA 68015-77-0	68015-77-0	45–50	1.0

**CWA Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### 15.3. U.S. State Regulations

### 15.4. California Proposition 65

This product does not contain any Proposition 65 chemicals.

### 15.5. U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Manganese Dipotassium EDTA 68015-77-0	x	-	x
Sodium Sulfate 7757-82-6	-	x	x

## SECTION 16: OTHER INFORMATION

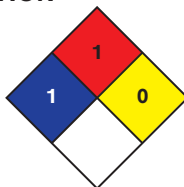
### 16.1. NFPA

**Health hazards:** 1

**Flammability:** 1

**Instability:** 0

**Special hazards:** Not determined.



### 16.2 HMIS III Rating

**Health hazards:** Not determined.

**Flammability:** Not determined.

**Instability:** Not determined.

**Personal protection:** Not determined.

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## DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.