

MANGANESE^{5%} EDTA

POWERAG™

SAFETY DATA SHEET

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

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

1.1. Product identifier

Product form: Mixture

Product name: Manganese5% EDTA

1.2. Relevant identified uses of the substance or mixture and uses advised against

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

GHS-US classification

This product is not classified as hazardous per GHS classification criteria.

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available.

2.4. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable.

3.2. Mixture

Full text of H-phrases: See section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. DO NOT induce vomiting. Obtain emergency medical attention. Call a poison center or doctor if you feel unwell.

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

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Irritation.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Sand. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity: The product is non-reactive under normal conditions of use, storage, and transport.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during firefighting: Do not enter the fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment: Self-contained breathing apparatus and complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to Section 8: *Exposure controls/personal protection*.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release into the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container closed when not in use. Keep cool. Protect from sunlight. Store in well-ventilated place.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Storage temperature: 25 (5–42) °C

7.3. Specific end use(s)

No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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ACGIH: Not applicable.

OSHA: Not applicable.



8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Environmental exposure controls: Avoid release to the environment.

Other information: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Color: Rose.

Odor: Characteristic odor

Odor threshold: No data available.

pH: 7.5

Melting point: Not applicable.

Freezing point: ≤ 0 °C

Boiling point: ≥ 100 °C

Flash point: None

Relative evaporation rate (butylacetate=1): No data available.

Flammability (solid, gas): No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

Explosive limits: No data available.

Vapor pressure: No data available.

Relative vapor density at 20 °C: No data available.

Relative density: No data available.

Density: ≥ 1.266 g/ml

Solubility: Soluble in water.

Water: Solubility in water of component(s) of the mixture:

Manganese(IV) oxide—insoluble

Tetrasodium ethylenediaminetetraacetate—103 g/100 ml

Log Pow: No data available.

Log Kow: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Viscosity, kinematic: No data available.

Viscosity, dynamic: No data available.

9.2. Other information

VOC content: ≤ 10 g/l

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage, and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.



10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Not classified.

Skin corrosion/irritation: Not classified.

pH: 7.5

Serious eye damage/irritation: Not classified.

pH: 7.5

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (single exposure): Not classified.

Specific target organ toxicity (repeated exposure): Not classified.

Aspiration hazard: Not classified.

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact: Irritation.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology/general: This product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Ecology/water: Harmful to aquatic life.

12.2. Persistence and degradability

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Persistence and degradability: Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Effect on the global warming: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations: Dispose of contents/containers in hazardous or special waster collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional, and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.

Ecology—waste materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT.

Not regulated for transport.

Additional information:

Other information: No supplementary information available.

ADR: No additional information available.
Transport by sea: No additional information available.
Air transport: No additional information available.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal regulations

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SARA Section 313—Emission Reporting: 5% Manganese (N450 Manganese Compounds)

15.2. International regulations

CANADA: No additional information available.

EU-Regulations: No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]: No additional information available.

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified.

15.2.2. National regulations

No additional information available.

15.3. US State regulations

No additional information available.

SECTION 16: OTHER INFORMATION

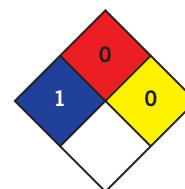
Other information: None.

NFPA health hazard: 1—Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard: 0—Materials that will not burn.

NFPA reactivity: 0—Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard: None.



HMIS III Rating

Health: 1 Slight Hazard—Irritation or minor reversible injury possible.

Flammability: 0 Minimal Hazard—Materials that will not burn.

Physical: 0 Minimal Hazard—Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-explosives.

Personal Protection: C

(C—Safety glasses, gloves, and synthetic apron.)

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.