Safety Data Sheet

Issue Date: 19-Jul-2019 **Revision Date:** 26-Jul-2019 **Version** 1

1. IDENTIFICATION

Product identifier

Product Name Cameron
Manganese-6%

Other means of identification

SDS # NIS-027

Recommended use of the chemical and restrictions on use

Recommended Use Agricultural micronutrients.

Details of the supplier of the safety data sheet

Manufacturer for:
Cameron Micronutrients
4530 Professional Circle, Ste 201
Virginia Beach, VA 23455

Emergency telephone number

Company Phone Number Phone: (757) 487-0656

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear liquid with faint pink color **Physical state Liquid** **Odor Mild**

Classification

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 users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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. **

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

Skin Contact Remove contaminated clothing and wash before reusing. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

Inhalation remove person from contaminated area to fresh air and assist breathing as needed. Seek

medical attention if irritation occurs.

Ingestion Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms May cause mild but reversible eye irritation. May cause mild but reversible skin irritation. May cause minor irritation of the upper respiratory tract. May cause minor irritation of the digestive tract.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide, dry chemical, water fog, foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Closed containers may explode from vapor expansion in high heat.

Hazardous combustion products Asphyxiates such as carbon monoxide may result from combustion. Manganese and nitrogen oxides may from as well.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors, keep upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Do not allow spilled product to enter sewers or waterways. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Contain spilled product by diking area with sand or earth.

Methods for Clean-Up Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Ensure adequate ventilation during handling and use. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Copper or any of its alloys (brass or bronze) should never be used in any chelating handling system.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in cool, dry areas away from children, food and feed products in an area away from incompatible substances. Ensure that storage area is secured. Protect packing from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature -5.6°C (22°F). Store this product in stainless steel, fiberglass, polyethylene, or certain other plastic materials. Aluminum and mild steel tanks are not recommended for storage or this product.

Incompatible Materials Strong oxidizers, copper and its alloys (brass and bronze), aluminum and mild steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

Appropriate engineering controls

Engineering Controls Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specific exposure limits. Local exhaust ventilation is preferred.

Individual protection measures, such as personal protective equipment

Eye/Face Protection While not expected to cause eye irritation, the use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection While not expected to cause skin irritation, the only use chemically protective gloves is recommended to prevent against skin contact. Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.

Respiratory Protection If conditions are poorly ventilated or exceed the established limits, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.

General Hygiene Considerations Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Clear liquid with faint pink color	**Odor**	Mild
Color	Faint pink	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	4.25	
Melting point / freezing point	Not determined	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid-Not applicable	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	1.32	
Water Solubility	100%	
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	

Other information

Bulk density 11.04 lb/gal

10. STABILITY AND REACTIVITY

Reactivity

Over a period of time, the EDTA in this product could be corrosive to copper and its alloys (brass and bronze), aluminum and mild steel.

Chemical stability

Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of hazardous reactions

Will not occur.

Conditions to Avoid

Excessive heat.

Incompatible materials

Strong oxidizers, copper and its alloys (brass and bronze), aluminum and mild steel.

Hazardous decomposition products

Asphyxiates such as carbon monoxide may result from combustion. Manganese and nitrogen oxides may from as well.

11. TOXICOLOGICAL INFORMATION

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.

Component Information
Not available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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 as listed by OSHA, IARC or NTP.

Numerical measures of toxicity
Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The 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.

Component Information
Not available

Persistence/Degradability
Not determined.

Bioaccumulation
There is no data for this product.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

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

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

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			
Dipotassium EDTA	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*

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).

SARA 311/312 Hazard Categories

This material, as supplied, does not contain any substances subject to the requirements of SARA Sections 311/312 (40 CFR 370)

SARA 313

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Manganese Dipotassium EDTA 68015-77-0	X		X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	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.

End of Safety Data Sheet