# **NUTRISYNC® MANGANESE**

SDS NUMBER: 1000367765-15-LPI SDS REVISIONS: SEC. 3.2 DATE OF ISSUE: 06/11/15 SUPERSEDES: 03/05/13

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: NUTRISYNC® MANGANESE

1.2 RECOMMENDED USE: FERTILIZER

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24-Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

## 2.2 Classification according to 29 CFR 1910.1200

 Eye Irritation
 Category 2B
 H320

 Skin Irritation
 Category 3
 H316

 Acute Toxicity (Oral)
 Category 5
 H335

#### Label elements



Signal word: WARNING

Hazard Statement: H320 – Causes eye irritation.

H316 – Causes mild skin irritation. H335 – May cause respiratory irritation. H333 – May be harmful if inhaled. H303 – May be harmful if swallowed.

Precautionary

Statement: P260 – Do not breathe mist / vapors / spray.

P264 - Wash thoroughly after handling.

(Prevention): P271 – Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 – Wear protective gloves / eye protection / face protection.

Precautionary

Statement: P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

(Response): P303+P361+P353 - IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P312 – IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

P310 - Immediately call a POISON CENTER or doctor / physician.

P340 – Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 – Wash contaminated clothing before reuse.

P391 - Collect spillage.

Precautionary Statement:

(Storage): P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

# 2.3 Other hazards

None known

### **KEEP OUT OF REACH OF CHILDREN -**

Appearance and odor: Pale liquid with mild odor.

Potential Health effects

Routes of exposure Eye contact, skin contact, inhalation.

**Eyes** May cause eye irritation. **Skin** May cause skin irritation.

**Inhalation** May be irritating to respiratory system.

**Ingestion** May be irritating to mouth, throat, and stomach.

Target organs Skin. Eyes. Inhalation.

Signs and symptoms May cause irritation to the eyes, skin, gastrointestinal tract, and respiratory system.

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

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3. COMPOSITION, INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name: CAS No. Classification Concentration

[%] varies

Balance

Manganese Sulfate Monohydrate 10034-96-5 Skin Irrit. 3; H316
Water 7732-18-5 Eye Irrit. 2B; H320

STOT SE; H335

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Risk of damage to eyes. Skin irritation. Respiratory tract irritation.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the

patient.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon

dioxide (CO<sub>2</sub>), foam, water spray or fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen may be produced.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires

involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS. PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS** 

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

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#### 7. HANDLING AND STORAGE

## 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid inhalation of vapors / spray and contact with eyes, skin and clothing. Do not breathe mist or

vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

## 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store above 32°F (0°C). Do not contaminate water, food, or feed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 CONTROL PARAMETERS:

**OCCUPATIONAL EXPOSURE LIMITS** 

**ACGIH® TLVs®** 

Components Type Value

No listings TW/

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components Value Specimen

No listings

#### 8.2 EXPOSURE CONTROLS:

## **Engineering Measures**

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide evewash station and safety shower.

#### Individual Protection Measures:

Eye / Face Protection : Goggles or shielded safety glasses are recommended.

Skin Protection: Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove

contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware

that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection : In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Wear respiratory

protection during operations where spraying or misting occurs. In the U.S.A., if respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air

supplied respiratory protection if exposure concentrations are unknown.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Clear liquid ODOR: Mild. OLOR THRESHOLD: 0.1 ppm.

ODOR THRESHOLD: 0.1 ppm. COLOR: Pale.

pH: No data available.

MELTING POINT / FREEZING POINT: No data available
BOILING POINT: No data available
No data available
FLASH POINT: Does not flash

FLAMMABILILITY (solid, gas): Does not support combustion.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not applicable.

VAPOR PRESSURE: No data available.

SOLUBILITY: Soluble

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: Not determined
VISCOSITY: Not determined
SPECIFIC GRAVITY (Water = 1): 1.07 g/ml

BULK DENSITY: 8.92 lbs/gal. / 1.07 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

# **NUTRISYNC® MANGANESE**

## 10. STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

Stable

#### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

#### **10.4 CONDITIONS TO AVOID**

Excessive heat.

#### 10.5 INCOMPATIBILE MATERIALS

Strong oxidizers.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products can include and are not limited to: oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 LIKELY ROUTES OF EXPOSURE

Skin contact, eye contact.

LC<sub>50</sub> (rat): No data available

LD<sub>50</sub> Oral (rat): No data available

LD<sub>50</sub> Dermal (rabbit): No data available

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): No data available

Eye Irritation (rabbit): No data available

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available
Germ Cell Mutagenicity: No data available

Interactive Effects: None known

## 12. ECOLOGICAL INFORMATION

## 12.1 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.

**Ecotoxicological Data** 

Components Species Test Results

No data available

Aquatic

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

# 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: The product is not readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

This product is water soluble and may disperse in soil.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

## 13. DISPOSAL CONSIDERATIONS

# 13.1 WASTE TREATMENT METHODS

Do not reuse containers for any purpose. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food or feed by storage or disposal.

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14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6;

CLASS 70

## 15. REGULATORY INFORMATION

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

Health 0 Least Health Flammability Flammability 0 1 Slight 0 Reactivity Instability 2 Moderate 0 PPE 3 В High

4 Severe

**SARA Hazard Notification/Reporting** 

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N Please N Please of Pressure N Please N Plea

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive

harm.

## 16. OTHER INFORMATION

SDS STATUS: Section 3.2 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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