

# SAFETY DATA SHEET

**MULTI-CHE 5N - 9ZN 5-0-0** 

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:

MULTI-CHE 5N - 9Zn 5-0-0

1.2 RECOMMENDED USE: SOIL AND FOLIAR FERTILIZER FOR THE CORRECTION OF ZINC DEFICIENCY

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

Classification according to 29 CFR 1910.1200

Acute Toxicity – Oral Category 4 H302

#### 2.2 Label elements



Signal word: WARNING

Hazard Statement: H302 - Harmful if swallowed.

Precautionary

Statement: P264 – Wash hands and face thoroughly after handling. (Prevention) P270 – Do not eat, drink or smoke when using this product.

Precautionary Statement:

(Response): P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

Precautionary Statement:

(Storage): Not required or applicable.

Precautionary Statement:

(Disposal): P501 – Dispose of contents/container in accordance with local, state, and federal regulations..

## 2.3 Other hazards

None known

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## 3. COMPOSITION, INFORMATION ON INGREDIENTS

## 3.1 Substances

#### 3.2 Mixtures

## Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Concentration [%] Ammonium Hydroxide 1336-21-6 Proprietary Zinc EDTA 14025-21-9 Proprietary Zinc Citrate 5990-32-9 Proprietary Water 7732-18-5 Proprietary

# 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.

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.

**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 centre or doctor. Do not give anything by mouth

to an unconscious person.

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: Ingestion: Harmful if swallowed.

## 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.

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### **FIRE FIGHTING MEASURES**

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog. Do not use water jet as

this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting:

Product may burn if all water has evaporated or boiled away.

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.

### **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.

#### HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

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

mists 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 a cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty

container. Do not contaminate water, food or feed by storage or disposal. Do not contaminate water,

food or feed by storage or disposal.

## **EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1 CONTROL PARAMETERS:

**OCCUPATIONAL EXPOSURE LIMITS** 

U.S. Workplace Exposure Level (ACGIH) TLVs

Components

No listings

U.S. Workplace Exposure Level (OSHA) PELs

Components Value

**Biological limit values** 

**ACGIH Biological Exposure Indices** 

Components Value Specimen

No listings



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#### **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 eyewash station and safety shower.

### **Individual Protection Measures:**

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

Skin Protection: Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus

socks

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as

MSHA/NIOSH approved respirator with approved filter. Wear respiratory protection during operations where spraying or misting occurs. 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: Negligible.

ODOR THRESHOLD: No data available. COLOR: Clear.

oH: No data available

MELTING POINT / FREEZING POINT: No data available BOILING POINT: No data available.

FLASH POINT: Does not flash FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Soluble

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available VISCOSITY: No data available. SPECIFIC GRAVITY (Water = 1): 1.32 g/ml

DENSITY: 11.00 lbs./gal / 1.32 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.

# 10. STABILITY AND REACTIVITY

## 10.1 REACTIVITY

Stable

### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

# 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not polymerize.

# 10.4 CONDITIONS TO AVOID

No data available

# 10.5 INCOMPATIBILE MATERIALS

May react with oxidizing agents.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available



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SDS REVISIONS: FORMAT

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### 11 TOXICOLOGICAL INFORMATION

#### 11.3 LIKELY ROUTES OF EXPOSURE

Ingestion.

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

#### 12.3 ECOTOXICITY

A toxic hazard to fish. Avoid spills or release to watercourses. 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. This product is not intended for use in aquatic settings.

### **Ecotoxicological Data**

|                    | Species        | Test Results                          |  |
|--------------------|----------------|---------------------------------------|--|
| Ammonium Hydroxide | Fathead minnow | 8.2 mg/L – 96 hour LC <sub>50</sub>   |  |
|                    | Daphnia magna  | 0.66 – 48 hour EC <sub>50</sub>       |  |
|                    | Rainbow trout  | 0.032 mg/L – 96 hour LC <sub>50</sub> |  |

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: No data available

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

## 12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

# 13 DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <a href="http://www.acrecycle.org/">http://www.acrecycle.org/</a>. Do not contaminate water, food or feed by storage or disposal.

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## 14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

**DOT Shipping Description: NOT REGULATED** 

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

1Health0Least1Health0Flammability1Slight0Flammability0Instability2Moderate0Reactivity3HighBPPE

High B PF Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate \_Y\_ Fire \_N\_ Sudden Release of Pressure \_N\_

Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Ammonium Hydroxide (CAS: 1336-21-6) 1,000 lbs. SARA, Title III, Section 313: Ammonium Hydroxide (CAS: 1336-21-6); Zinc Compounds (N982) 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: Format.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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