

# **MEDICAP® ZN** Systemic Fertilizer Implants

**CREATIVE SALES, INC.** 

**Safety Data Sheet** 

# SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY

**Product Identifier** MEDICAP® ZN Systemic Tree Implants

Other Means of Identification None

Recommended Use of Product Fertilizer

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# SECTION 2: HAZARDS IDENTIFICATION

#### **GHS Classification**

Acute toxicity, Category 4, Oral, H302 Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16

#### **GHS-Labeling**

Hazard pictograms





Signal Word Danger

Hazard Statements

H302 Harmful if swallowed

H318 Causes serious eye damage

Precautionary Statements

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear protective gloves, eye protection and face protection

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

P305 + P351 + p338 if in eyes: Rinse cautiously 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

P330 Rinse mouth

P501 Dispose of contents/container to an approved waste disposal plant

# Other hazards

None known

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# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Formula  $ZnSO_4 * H_2O$  Molar mass 179.45 g/mol

Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

Zinc sulphate monohydrate (>= 90 % - <= 100 %)

7446-19-7

Exact percentages are being withheld as a trade secret

# **SECTION 4: FIRST AID MEASURES**

#### **Description of first-aid measures**

Inhalation

After inhalation: fresh air

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in opthalmologist

Inaestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician

O<sub>4</sub>SZn \* H<sub>2</sub>O O<sub>4</sub>SZn \* H<sub>2</sub>O (Hill)

Never give anything by mouth to an unconscious person

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

irritant effects, pain, Diarrhea, Vomiting, cardiovascular disorders, collapse

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

No information available

# **SECTION 5: FIREFIGHTING MEASURES**

#### Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given

#### Special hazards arising from the substance or mixture

Not combustible

Ambient fire may liberate hazardous vapors

Fire may cause evolution of:

Sulfur oxides

## Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system

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# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert

Advice for emergency responders: Protective equipment see section 8

#### **Environmental precautions**

Do not empty into drains

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills

Observe possible material restrictions (see sections 7 and 10)

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts

# **SECTION 7. HANDLING AND STORAGE**

#### Precautions for safe handling

Observe label precautions

## Conditions for safe storage, including any incompatibilities

Tightly closed. Dry

Store at +5 °C to +30 °C (+41 °F to +86 °F)

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure limit(s)

Contains no substances with occupational exposure limit values

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

# Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier

#### Hygiene measures

Change contaminated clothing. Wash hands after working with substance

#### Eye/face protection

Tightly fitting safety goggles

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

#### Other protective equipment:

Protective clothing

#### Respiratory protection

Required when dusts are generated

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

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# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state solid

Color off-white/light blue

Odor odorless

Odor Threshold No information available

Ph 4.0 - 5.65 at 50 g/l 68 °F (20 °C)

Melting point Not applicable

Boiling point/boiling range Not applicable

Flash point Not applicable

Evaporation rate No information available

Flammability (solid, gas) No information available

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Vapor pressure No information available

Relative vapor density

No information available

Density 3.2 g/cm³ at 68 °F (20 °C)

Relative density No information available

Water solubility ca.350 g/l at 68 °F (20 °C)

Partition coefficient: n-octanol/water No information available

Auto-ignition temperature No information available

Decomposition temperature ca.1112 °F (600 °C) (anhydrous substance)

Viscosity, dynamic No information available

Explosive properties No information available

Oxidizing properties No information available

Ignition temperature Not applicable

Bulk density ca.500 kg/m³

# **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

See below

## **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature)

# Possibility of hazardous reactions

No information available

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#### Conditions to avoid

Strong heating

#### Incompatible materials

No information available

#### Hazardous decomposition products

In the event of fire: See section 5

# **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Acute oral toxicity

Absorption

Acute toxicity estimate: 500.1 mg/kg

Expert judgment

Acute inhalation toxicity

Symptoms: damage of respiratory tract, Inhalation may lead to the formation of oedemas in the respiratory tract

Skin irritation Slight irritation

Eye irritation

Causes serious eye damage

Genotoxicity in vitro

Ames test result: negative

(anhydrous substance) (IUCLID)

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled

#### Carcinogenicity

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen

or potential carcinogen by OSHA

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or

anticipated carcinogen by NTP

ACGIH No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen

or potential carcinogen by ACGIH

#### **Further information**

After absorption:

Systemic effects: pain, Vomiting, Diarrhea

After uptake of large quantities:

Drop in blood pressure, cardiovascular disorders, collapse

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Handle in accordance with good industrial hygiene and safety practice

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 0.15 mg/l; 48 h (Lit)

Toxicity to algae

IC50 Scenedesmus quadricauda (Green algae): 0.52 mg/l; 5 d (anhydrous substance) (IUCLID)

#### Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances

#### Bioaccumulative potential

No information available

#### Mobility in soil

No information available

Additional ecological information Biological effects: Bactericidal effect Hazard for drinking water supplies Further information on ecology

Discharge into the environment must be avoided

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. TRANSPORT INFORMATION**

Land transport (DOT)

UN number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (ZINC SULPHATE)

Class

Packing group III

Environmentally hazardous ---

Air transport (IATA)

UN number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (ZINC-SULPHATE)

Class 9

Packing group III

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Environmentally hazardous --

Special precautions for user no

Sea transport (IMDG)

UN number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (ZINC-SULPHATE)

Class 9

Packing group III

Environmentally hazardous --

Special precautions for user yes

EmS F-A S-F

Segregation Group 0007 Heavy Metals and their salts (including their organometallic coumpounds)

# **SECTION 15. REGULATORY INFORMATION**

#### **United States of America**

#### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Inaredients

Zinc sulphate monohydrate 7446-19-7 100 %

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

#### **Clean Water Act**

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 116.4A *Ingredients* 

Zinc Sulphate

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3 *Ingredients* 

Zinc Sulphate

# **DEA List I**

Not listed

## **DEA List II**

Not listed

## **US State Regulations**

# **Massachusetts Right To Know**

Ingredients

Zinc Sulphate monohydrate

# Pennsylvania Right to Know

Ingredients

Zinc Sulphate monohydrate

# **New Jersey Right To Know**

Ingredients

Zinc Sulphate monohydrate

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#### California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects

#### **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory

DSL: All components of this product are on the Canadian DSL

KOREA: Not in compliance with the inventory

# **SECTION 16. OTHER INFORMATION**

# **Training advice**

Provide adequate information, instruction and training for operators

## Labeling

Hazard pictograms







Signal Word
Danger

#### Hazard Statements

H302 Harmful if swallowed

H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects

#### Precautionary Statements

Prevention

P273 Avoid release to the environment

P280 Wear eye protection

Response

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

and easy to do. Continue rinsing. P313 Get medical advice/attention

#### Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed
H318 Causes serious eye damage

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## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org

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