

# Safety Data Sheet

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

Date of issue: 01/14/2019 Version: 1.0

## **SECTION 1: Identification**

Identification

Product form : Mixture

Product name : Folimar ZinCa Bloom

Recommended use and restrictions on use

Use of the substance/mixture : Agricultural use

**Supplier** 1.3.

Manufacturer

MarVista Resources

745 North Ave.

P.O. Box 218

Corcoran, Ca. 93212 - USA

T 559-992-4535

1.4. **Emergency telephone number** 

: 24 Hour Emergency Response Chemtrec: 1-800-262-8200 Emergency number

# **SECTION 2: Hazard(s) identification**

### Classification of the substance or mixture

#### **GHS-US** classification

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Serious eye damage/eye H319

irritation Category 2

Specific target organ

toxicity (single exposure)

Category 3

Full text of H statements : see section 16

Causes serious eye irritation

May cause respiratory irritation

# GHS Label elements, including precautionary statements

H335

### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing mist, spray

P264 - Wash skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, protective clothing, eye protection P302+P352 - If on skin: Wash with plenty of soap and water.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a doctor if you feel unwell P321 - Specific treatment (see the first aid section on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state, and federal regulations

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#### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
zinc nitrate, hexahydrate	(CAS-No.) 10196-18-6	20 - 30	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
calcium nitrate,tetrahydrate	(CAS-No.) 13477-34-4	<= 10	Eye Irrit. 2B, H320

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell. If you feel unwell, seek medical advice.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries : May cause respiratory irritation. Causes skin and eye irritation.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Irritation.
Symptoms/injuries after eye contact : Irritation to eyes.

Symptoms/injuries after ingestion : May cause gastrointestinal discomfort.

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

# 5.1. Suitable (and unsuitable) extinguishing media

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

# 5.2. Specific hazards arising from the chemical

No additional information available

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. 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. Avoid breathing mist, spray. Avoid contact with skin and eyes.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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#### **Environmental precautions**

Avoid release to the environment.

### Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

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

#### 6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection"".

### **SECTION 7: Handling and storage**

### Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing mist, spray. Avoid contact with

skin and eyes. Wear personal protective equipment.

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Hygiene measures

Always wash hands after handling the product.

### Conditions for safe storage, including any incompatibilities

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Storage conditions

Incompatible products : combustible materials. Strong reducers.

Storage area : Store in a cool, dry place.

### **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

### zinc nitrate, hexahydrate (10196-18-6)

Not applicable

### calcium nitrate, tetrahydrate (13477-34-4)

Not applicable

### **Appropriate engineering controls**

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

: Avoid release to the environment. Environmental exposure controls

# Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

Odor threshold

## Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

# **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Physical state : Liquid

> : No data available : No data available : No data available

рΗ : 1.5-2.5 Melting point : Not applicable Freezing point : No data available : No data available Boiling point

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: No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C No data available

Relative density : 1.26

Solubility : No data available Log Pow No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** No data available Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

### **Chemical stability**

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### **Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

### Incompatible materials

No additional information available

# **Hazardous decomposition products**

No additional information available

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

zinc nitrate, hexahydrate (10196-18-6)	
LD50 oral rat	1190 mg/kg (Rat)
ATE US (oral)	1190 mg/kg body weight
calcium nitrate,tetrahydrate (13477-34-4)	
LD50 oral rat	3900 mg/kg (Rat)

calcium nitrate,tetrahydrate (13477-34-4)	
LD50 oral rat	3900 mg/kg (Rat)
ATE US (oral)	3900 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

pH: 1.5-2.5

Serious eye damage/irritation : Causes serious eye irritation.

pH: 1.5-2.5

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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Specific target organ toxicity – single exposure : May cause respiratory irritation.

zinc nitrate, hexahydrate (10196-18-6)

Specific target organ toxicity – single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified Viscosity, kinematic : No data available

Symptoms/injuries : May cause respiratory irritation. Causes skin and eye irritation.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Irritation.
Symptoms/injuries after eye contact : Irritation to eyes.

Symptoms/injuries after ingestion : May cause gastrointestinal discomfort.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

zinc nitrate, hexahydrate (10196-18-6)	
LC50 fish 1	2.61 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.068 mg/l (EC50; 48 h)
Threshold limit algae 1	< 0.12 mg/l (EC50)
calcium nitrate,tetrahydrate (13477-34-4)	
LC50 fish 1	> 98.6 mg/l (96 h; Oncorhynchus mykiss - rainbow trout)
LC50 fish 2	10000 mg/l (96 h; Lepomis macrochirus; Anhydrous form)

# 12.2. Persistence and degradability

zinc nitrate, hexahydrate (10196-18-6)	
Persistence and degradability	Biodegradability: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

calcium nitrate,tetrahydrate (13477-34-4)	
Persistence and degradability	Biodegradable in the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

# 12.3. Bioaccumulative potential

calcium nitrate,tetrahydrate (13477-34-4)	
Bioaccumulative potential	Not bioaccumulative.

# 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Sewage disposal recommendations

: Prevent liquid from entering sewers, watercourses, underground or low areas. Disposal must be done according to official regulations.

# **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**TDG** 

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

# zinc nitrate, hexahydrate (10196-18-6)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

# calcium nitrate,tetrahydrate (13477-34-4)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

## CANADA

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

# 15.3. US State regulations

# **SECTION 16: Other information**

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# Full text of H-phrases:

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

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NFPA reactivity

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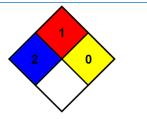
NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



SDS US (GHS HazCom 2012)

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