

# **1. IDENTIFICATION**

Product Name
Recommended use
Supplier

Zinc Sulfate Granular Fertilizer and Animal Feed Valudor Products, LLC 179 Calle Magdalena Suite 100 Encinitas, CA 92024 (760) 635 8500 800-535-5053 (Infotrac)

**Emergency Telephone** 

# 2. HAZARD IDENTIFICATION

## **Classification**

This product considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Eye damage/Irritation	Category 1
Acute Toxicity - oral	Category 4

### **Label Elements**

GHS Pictograms	
Signal Word	Danger
Hazard Statements	Causes serious eye damage Harmful if swallowed
<b>Precautionary Statements</b> – Prevention	Wear eye protection/face protection Wash thoroughly after handling Do not eat, drink or smoke when using this product.
Response Ingestion	If swallowed: Call a poison center/doctor if you feel unwell
Eye	Rinse mouth IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Disposal	Immediately call a poison center/doctor Dispose of contents/container in accordance with local/regional/national/international regulations
Hazards not other classified	None

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Substance</u>		
Chemical name	CAS-No	Weight-%
Zinc Sulfate Monohydrate	<u>7446-19-7</u>	<u>90-100</u>
4. FIRST-AID MEASURES		
<u>First Aid Measures</u>		
Eye Contact	lenses, if present and easy	lenty of water. Remove contact y to do so. Keep eye wide open sing for 15 minutes. Call a doctor/
Skin Contact		ith plenty of water. Remove all shoes. If skin irritation persists,
Inhalation	Remove to fresh air.	If not breathing, give artificial difficult, give oxygen. Get medical
Ingestion		glasses of water to drink. Do NOT give anything by mouth to an edical attention.

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

Symptoms	No information available	
5. FIRE-FIGHTING MEASURES		

Suitable extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Unsuitable Extinguishing Media	Use water carefully as material will react with water to form acidic solution. Water spray may be used to keep fire exposed containers cool.

## Specific Hazards Arising from the chemical

Hazardous combustion products	Thermal decomposition can lead to the release of irritation or
	toxic gases and vapors; including and not limited to: Oxides
	of zinc and sulfur

### **Protective equipment and precautions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in

## Section 8. Ensure adequate ventilation.

## Methods and materials for containment and cleanup

Methods for clean-up	Sweep or vacuum up and place in an appropriate closed
	container. Keep unauthorized personnel away. Avoid
	generating dust.
<b>Environmental Precautions</b>	Prevent entry into waterways or sewers

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Do not breathe dust. Avoid direct or prolonged contact with skin, eyes and clothing. Do not ingest. Do not use in areas without adequate ventilation. Use personal protective equipment recommended in section 8. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practices.

## **Conditions for safe storage, including any incompatibilities**

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies

## Appropriate engineering controls

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Maintain eye wash fountain and quick-drench facilities in work area.

### **Personal Protective Equipment**

Eye/face protection Skin protection	Use chemical safety goggles Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

# 9. PHYSICAL and CHEMICAL PROPERTIES

Appearance	White granules
Physical state	Solid
Odor	Odorless
Odor threshold	No information available
рН	4.0-5.2 (50 g/L)

Melting point / freezing point Boiling point / Boiling range Flash point Evaporation rate Flammability Flammability or explosive limits	No information available Not applicable Not applicable Not applicable No information available
Upper	No information available
Lower	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	3.28
Solubility in water	54g/100 ml at 70° F
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

# **10. STABILITY AND REACTIVITY**

Reactivity	None known under normal conditions
Chemical stability	Stable under ordinary conditions of use and storage. Hygroscopic: absorbs moisture or water from the air.
Possibility of hazardous reactions	None under normal processing
Conditions to avoid	Avoid dust formation
Incompatible materials	Strong bases. Exposure to moist air or water.
Hazardous decomposition products	Zinc sulfate can decompose at high temperatures to form toxic oxides, sulfur and zinc oxide.

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Skin contact	May cause skin irritation	
Eye contact	Causes serious eye damage	
Inhalation	May cause irritation of respiratory tract	
Ingestion	Harmful if swallowed	

# Symptoms related to the physical chemical and toxicological characteristics

Symptoms may include redness, itching, pain, coughing, sore throat, shortness of breath, temporary loss of vision, abdominal pain, diarrhea, nausea, vomiting

# Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation Eye damage/irritation Sensitization Mutagenic effects Not classified Causes serious eye damage Not classified Not classified

### Carcinogenicity

Reproductive toxicity STOT – single exposure STOT – repeated exposure Aspiration hazard

## Acute Toxicity

#### **Component information**

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Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc sulfate	7733-02-0	574 mg/kg	>2,000 mg/kg	-

Not classified

Not classified

Not classified

Not classified

## **12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Very toxic to aquatic life with long lasting effects

No component of this product is identified as a known or

anticipated carcinogen by NTP, IARC, OSHA or ACGIH

Component	Species	Data
Zinc sulfate (CAS 7733-02-0)		
Aquatic		
Fish LC50	Rainbow trout (Oncorhynchus mykiss)	0.24 - 0.83 mg/l 96h
Crustages EC 50		7.4 m c/1.49h
Crustacea EC 50	Water Flea (Daphnia Magna)	7.4 mg/l 48h

No information available

<b>Bioaccumulative potential</b>	No information available
<u>Mobility in soil</u>	No information available
Other adverse effects	No information available

## **13. DISPOSAL CONSIDERATIONS**

Persistence and degradability

Waste Disposal Methods Processing, use or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

## **14. TRANSPORT INFORMATION**

### DOT

Not Regulated

Classification depends on package size, mode of transport and other factors. Always consult local regulations before shipment

# **15. REGULATORY INFORMATION**

### **International Inventories**

TSCA	Listed
DSL	Listed

### **US Federal Regulations**

TSCA section 12(b) Export Notification

Not regulated

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 372: Zinc compounds 90-100%

## SARA 311/312 Hazard Categorization

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Pressure	No
Reactivity	No

### CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 355.

Chemical name	Cas-No	CERCLA RQ
Zinc sulfate	7733-02-0	1000 lbs.

## CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): Zinc Sulfate

### **US State Regulations**

## **California Proposition 65**

This product does not contain any proposition 65 chemicals

# **16. OTHER INFORMATION**

NFPA	Ratings	
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Health: 2

Flammability: 0

Reactivity: 0

Creation Date: 02/21/2016 Revision Date: 10/15/2019 Revision Number: 1.0 Revision Information: Creation

## 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