

Safety Data Sheet

1. IDENTIFICATION

Product Name Zinc Sulfate Powder Fertilizer and Animal Feed Recommended use Valudor Products, LLC. Supplier

179 Calle Magdalena, Suite 100

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(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

Precautionary Statements –

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.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Eye

rinsing.
Immediately call a poison center/doctor.
Dispose of contents/container in accordance with Disposal

local/regional/national/international regulations.

Hazards not other classified None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS-No	Weight-%
Zinc Sulfate Monohydrate	<u>7446-19-7</u>	<u>90-100</u>

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Immediately rinse with plenty of water. Remove contact

lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/

physician immediately.

Skin Contact Wash off immediately with plenty of water. Remove all

contaminated clothes and shoes. If skin irritation persists,

call a doctor/physician.

Inhalation Remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical

attention.

Ingestion If swallowed, give several glasses of water to drink. Do NOT

induce vomiting. Never give anything by mouth to an

unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms	No information available

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing Media</u> Use any means suitable for extinguishing surrounding fire.

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.

Environmental Precautions 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 Use chemical safety goggles.

Skin protection 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 powder

Physical stateSolidOdorOdorless

Odor threshold No information available

pH 4.0-5.2 (50 g/L)

Melting point / freezing point No information available

Boiling point / Boiling rangeNot applicableFlash pointNot applicableEvaporation rateNot applicable

Flammability No information available

Flammability or explosive

Limits

UpperNo information availableLowerNo information availableVapor pressureNo information availableVapor densityNo 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
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 Not classified

Eye damage/irritation Causes serious eye damage

Sensitization Not classified Mutagenic effects Not classified

Carcinogenicity No component of this product is identified as a known or

anticipated carcinogen by NTP, IARC, OSHA or ACGIH

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

Not classified
Not classified
Not classified
Not classified

Acute Toxicity

Component information

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

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects

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

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

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 Health: 2 Flammability: 0 Reactivity: 0

Creation Date: 2/21/2016 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 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.