# SAFETY DATA SHEET

Revision date 08-April-2024

1. Identification		
Product identifier		
Product Name	ZINC SULFATE, HEPTAHYDRATE, USP, bioCERTIFIED™	
Other means of identification		
Product Code(s)	ZS901	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		
	Objectives 4,000,404,0000	

Emergency Telephone

Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

## **Classification**

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements Harmful if swallowed Causes serious eye irritation May cause respiratory irritation



Revision Number 2



Physical state Solid

Odor No information available

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye protection/ face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

## **Precautionary Statements - Response**

IF IN EYES: 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 IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up.

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other information

Causes mild skin irritation.

## 3. Composition/information on ingredients

## Substance

Chemical name	CAS No	Weight-%
Zinc Sulfate, Heptahydrate	7446-20-0	100

## 4. First-aid measures

## **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.	
Skin contact	Wash skin with soap and water.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	

Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
Most important symptoms and effec	ts, both acute and delayed
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.
Indication of any immediate medical	attention and special treatment needed
Note to physicians	Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to mechanical impac	<b>et</b> none.	
Sensitivity to static discharge	none.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

## 7. Handling and storage

## Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** Hygroscopic. It absorbs moisture from the air. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

## 8. Exposure controls/personal protection

## Control parameters

Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

## Information on basic physical and chemical properties

Information on basic physical and t	Solid	
Physical state		
Appearance Color	Crystals White	
	No information available	
Odor Odor (has she hi		
Odor threshold	No information available	
<u>Property</u>	Values	Remarks • Method
рН	no data available	None known
Melting point / freezing point	no data available	None known
Boiling point / boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	1.97	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Soluble in Glycerol	None known
	Insoluble in Alcohol	
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
-		

Kinematic viscosity Dynamic viscosity	no data available No data available	None known None known	
Other information Explosive properties Oxidizing properties Softening point Molecular weight VOC Content (%) Liquid Density Bulk density	No information available No information available No information available 287.56 No information available No information available No information available		
10. Stability and reactivity			
Reactivity	No information available.		
Chemical stability	Stable under normal conditions.		
Possibility of hazardous reactions	None under normal processing.		

# Conditions to avoid None known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

## Information on likely routes of exposure

## **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).
Symptoms related to the physical, or	chemical and toxicological characteristics
Symptoms	May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc Sulfate, Heptahydrate 7446-20-0	= 1260 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation. Classification based on data available for ingredients.		
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.		
Respiratory or skin sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	May cause respiratory irritation.		
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		
Other adverse effects	No information available.		
Interactive effects	No information available.		

12. Ecological information			
Ecotoxicity	The environmental impact of this product has not been fully investigated.		
Persistence and degradability Bioaccumulation	No information available. Inherently biodegradable.		
Other adverse effects	No information available.		

# 13. Disposal considerations

Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		

# 14. Transport information

DOT	not regulated
TDG	not regulated
MEX	not regulated
ICAO (air)	not regulated
IATA	not regulated
IMDG	not regulated
RID	not regulated

ADR	not regulated
ADN	not regulated

ADN

## 15. Regulatory information

#### International Inventories

TSCA	Not listed	
Note	*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwis exempted from inventory listing requirements	
DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS	Complies Does not Comply This product complies with ENCS: This product complies with China: Does not Comply Complies All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).	

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Zinc Sulfate, Heptahydrate - 7446-20-0	1.0

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## US State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

....

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc Sulfate, Heptahydrate 7446-20-0	sn 3012 (zinc compounds)	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA			
Health hazards 2			
Flammability 0			
-			
Instability 0	al proportion		
Physical and chemic	al properties -		
HMIS Health hererda			
Health hazards 2			
Flammability 0			
Physical hazards 0	Y		
Personal protection	X		
Key or legend to abb	reviations and acronyms used in t	he safety data shee	at
	EXPOSURE CONTROLS/PERSONA		
	VA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
	aximum limit value	0122	
o o linig			
Key literature referer	nces and sources for data used to	compile the SDS	
Agency for Toxic Subs	stances and Disease Registry (ATSD	R)	
	otection Agency ChemView Databas		
European Food Safety	Authority (EFSA)		
EPA (Environmental F			
Acute Exposure Guide	eline Level(s) (AEGL(s))		
	otection Agency Federal Insecticide,	Fungicide, and Rode	enticide Act
	otection Agency High Production Vo		
Food Research Journa	al		
Hazardous Substance	Database		
International Uniform	Chemical Information Database (IUC	LID)	
Japan GHS Classifica			
Australia National Indu	ustrial Chemicals Notification and Ass	sessment Scheme (N	NICNAS)
	ute for Occupational Safety and Hea	lth)	
	dicine's ChemID Plus (NLM CIP)		
	dicine's PubMed database (NLM PU	BMED)	
National Toxicology P			
	cal Classification and Information Da		
	omic Co-operation and Development		
	omic Co-operation and Development		
Organization for Econ	omic Co-operation and Development	Screening Information	on Data Set
World Health Organiza	ation		
Devision data			
Revision date	08-April-2024	ilabla	
Revision Note	No information avai	liaule.	
Disclaimer The information prov	uidad in this Rafaty Data Shart is a	arraat to the bast -	four knowledge information and halist at the
			f our knowledge, information and belief at the
			nce for safe handling, use, processing, storage,
			ty or quality specification. The information
	becific material designated and ma		uch material used in combination with any other

materials or in any process, unless specified in the text.

End of Safety Data Sheet