

# **Safety Data Sheet**

Issue Date: 01-May-2013 Revision Date: 14-May-2024 Version 9

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Zinc Sulfate Monohydrate

Other means of identification

**SDS #** OBM-006

UN/ID No UN3077

Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use.

Details of the supplier of the safety data sheet

Manufacturer Address

Old Bridge Minerals, Inc. 554 Waterworks Rd. Old Bridge, NJ 08857

**Emergency Telephone Number** 

**Company Phone Number** (732) 727-2225 (normal business hours)

(800) 275-3924 (24-hour number)

Emergency Telephone (24 hr) Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

# 2. HAZARDS IDENTIFICATION

Appearance - White Granules or Powder Physical State - Solid Odor - Odorless

# Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2

# Signal Word Warning

## **Hazard statements**

Harmful if swallowed or inhaled Causes serious eye irritation



## **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

Revision Date: 14-May-2024

## **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Chemical Name CAS No. Weight-%					
Zinc Sulfate, monohydrate 7446-19-7 100					

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

## 4. FIRST AID MEASURES

#### First Aid Measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Call a physician. Wash contaminated clothing before reuse.

**Inhalation** Remove from exposure and move to fresh air immediately. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical aid. Keep patient warm and at

rest.

Ingestion Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Induce vomiting,

but only if victim is fully conscious. Never give anything by mouth to an unconscious

person.

## Most important symptoms and effects

**Symptoms** For Acute Exposure: May cause skin and eye irritation. May cause corneal burn. May cause

gastrointestinal disturbance. May cause nose and throat irritation.

For Chronic Exposure: May cause dermatitis or irritation in some individuals upon prolonged contact. May cause conjunctivitis. May cause inhalation reflex bronchial

constriction.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use CO2, dry chemical, or foam. Water may be used ONLY to keep surrounding containers cool.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be ineffective.

Revision Date: 14-May-2024

## **Specific Hazards Arising from the Chemical**

Product is not flammable.

Hazardous Combustion Products May release toxic oxides of Zinc and Sulfur in a fire.

## Protective equipment and precautions for firefighters

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 Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

#### Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Contain spills to prevent migration and

entry into any waterway.

Methods for Clean-Up

Can be carefully reacted with Sodium Carbonate to form an insoluble Zinc Carbonate solid

that can be scooped up and sent to an approved disposal facility.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

**Advice on Safe Handling** Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or

smoke when using this product. Use personal protection recommended in Section 8.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Heated storage is necessary to prevent crystallization. Keep the container tightly closed

and dry.

**Incompatible Materials**None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** No exposure limits noted for ingredient(s).

Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear splash proof or dust proof safety goggles wherever there is a potential for eye

contact.

**Skin and Body Protection** Wear suitable protective clothing. Use chemical resistant gloves, if needed, to avoid

prolonged or repeated skin contact. Consult the glove manufacturer for the most appropriate glove material. Wash contaminated clothing, including shoes, before reuse. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities.

**Respiratory Protection** 

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

In case of inadequate ventilation wear respiratory protection.

#### Information on basic physical and chemical properties

Physical state Solid

AppearanceWhite granules or powderOdorOdorlessColorWhiteOdor ThresholdNot determined

Property Values Remarks • Method

pH Not Applicable

Melting Point/Freezing Point 238 °C

Boiling Point/Boiling Range Not Applicable

Flash Point Not Applicable
Evaporation Rate Not Applicable
Flammability (Solid, Gas) Not determined

Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

Not determined
Not determined
Not Applicable

Relative Density 3.28

**Water Solubility** 30 - 37% @ 21 ° C/ 70 ° F

Solubility in other solvents Not determined **Partition Coefficient** Not determined Auto-ignition Temperature Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined Crystallization point

decomposing

Revision Date: 14 May-2024

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

# **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## **Conditions to Avoid**

Keep out of reach of children.

# Incompatible Materials

None known based on information supplied.

## **Hazardous Decomposition Products**

May release toxic oxides of Zinc and Sulfur in a fire.

Revision Date: 14 May-2024

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

## **Component Information**

Not available

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Serious eye damage/eye

irritation

Causes serious eye irritation.

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

## **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 500.00 mg/kg

# 12. ECOLOGICAL INFORMATION

# Ecotoxicity

Very toxic to aquatic life with long lasting effects.

## **Component Information**

Not available

#### Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

## **Mobility**

Not determined

## **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and

regulations. With prior approval, the material can be returned to the manufacturer.

Revision Date: 14 May-2024

Disposal should be in accordance with applicable regional, national and local laws and **Contaminated Packaging** 

regulations.

#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Zinc Sulfate, monohydrate	Toxic
7446-19-7	

## 14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT



Class 9 placards are not required for domestic transportation. However, a bulk package or bulk truck (IBC) with more than a Reportable Quantity of 1000 pounds must be marked with the appropriate 3077 ID (Identifications number) number on a white square-on-point display. CFR 172.504 (f) (9). In accordance with FMCSR's (Federal Motor Carrier Safety Regulations) only drivers of vehicles transporting hazardous materials that are required to be placarded in accordance with Subpart F of Part 172 of the HMR must have a hazardous materials endorsement to the CDL. Thus, a hazardous materials endorsement is NOT required for a driver transporting class 9 materials because no placard is required, only a marking is required.

In Packages less than 1000 lbs. this material is not Hazardous.

**UN/ID No** UN3077

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate)

**Hazard Class Packing Group** Ш Reportable Quantity (RQ) 1000 lbs. **Emergency Response Guide ERG 171** 

Number

**IATA** 

**UN/ID No** UN3077

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate)

**Hazard Class** Ш **Packing Group** 

**IMDG** 

UN/ID No UN3077

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate)

**Hazard Class Packing Group** Ш

Revision Date: 14 May-2024

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Zinc Sulfate, monohydrate	Χ	X			Χ		Х	Χ

#### 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

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Zinc Sulfate, monohydrate	1000 lbs	1000 lbs	1000 lbs
7446-19-7			

## SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

# **SARA 313**

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Zinc Sulfate, monohydrate - 7446-19-7	7446-19-7	100	1.0

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

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Sulfate, monohydrate		X		

# **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, monohydrate	X		X
7446-19-7			

# **16. OTHER INFORMATION**

Revision Date: 14 May-2024

NFPAHealth Hazards<br/>2Flammability<br/>0Instability<br/>0Special Hazards<br/>Not determinedHMISHealth Hazards<br/>2Flammability<br/>0Physical hazards<br/>0Personal Protection<br/>Not determined

This SDS is compliant with OSHA Hazard Communication Standard under 29 CFR 1910.1200, Regulation (EC) 1907/2006 (REACH), and Regulation (EC) 1272/2008 (CLP).

**Issue Date**: 01-May-2013 **Revision Date**: 14-May-2024

Revision Note: Company Name Change

#### **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.

**End of Safety Data Sheet** 

Page 8/8