

Safety Data Sheet

Issue Date: 01-May-2013 Revision Date: 18-Dec-2017 Version 3

1. IDENTIFICATION

Product Identifier

Product Name Zinc Sulfate Monohydrate

Other means of identification

SDS # OBC-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 Chemicals, 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 1

Signal Word Danger

Hazard statements

Harmful if swallowed Causes serious eye damage



<u>Precautionary Statements - Prevention</u>

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

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

^{**}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.

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

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

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

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

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 In case of inadequate ventilation wear respiratory protection.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

Appearance White granules or powder Odor Odorless Color White **Odor Threshold** Not determined

Remarks • Method **Property** Values

Not Applicable pН

Melting Point/Freezing Point 21 °C / 70 °F Crystallization point

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 Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined **Vapor Density** Not Applicable

Relative Density 3.28 Water Solubility 30 - 37%

@ 21 °C/70 °F

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

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.

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 damage.

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

potential carcinogens as listed by OSHA, IARC or NTP.

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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 WastesDisposal should be in accordance with applicable regional, national and local laws and

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

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

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

UN/ID No UN3077

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

Hazard Class 9
Packing Group III
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Reportable Quantity (RQ) 1000 lbs Emergency Response Guide ERG 171

Number

<u>IATA</u>

UN/ID No UN3077

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

Hazard Class 9
Packing Group III

IMDG

UN/ID No UN3077

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

Hazard Class 9
Packing Group III

UN/ID No UN3077

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

Hazard Class 9
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Chemical I	Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Zinc Sulfate, mo	nohydrate	X	X			X		X	X

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 Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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

Health Hazards Flammability Instability **Special Hazards** NFPA Not determined HMIS **Health Hazards Flammability** Physical hazards **Personal Protection** Not determined

Issue Date: 01-May-2013 **Revision Date:** 18-Dec-2017 **Revision Note:** Regulatory update

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