

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 10.24.2014

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## Zinc Sulfate, Reagent Grade,

### SECTION 1 : Identification of the substance/mixture and of the supplier

**Product name :** Zinc Sulfate, Reagent Grade,

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number: S25642**

**Recommended uses of the product and uses restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific  
9 Barnhart Drive, Hanover, PA 17331

**Supplier Details:**

Fisher Science Education  
15 Jet View Drive, Rochester, NY 14624

**Emergency telephone number:**

Fisher Science Education Emergency Telephone No.: 800-535-5053

### SECTION 2 : Hazards identification

**Classification of the substance or mixture:**



**Corrosive**

Serious eye damage, category 1



**Irritant**

Acute toxicity (oral, dermal, inhalation), category 4



**Environmentally Damaging**

Acute hazards to the aquatic environment, category 1  
Chronic hazards to the aquatic environment, category 1

Eye Damage 1

Acute Toxicity 4 (oral)

Aquatic Acute Toxicity 1

Aquatic Chronic Toxicity 1

**Signal word** :Danger

**Hazard statements:**

Causes serious eye damage

Harmful if swallowed

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

**Precautionary statements:**

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

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Wash ... thoroughly after handling  
Avoid release to the environment  
Immediately call a POISON CENTER or doctor/physician  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing  
Rinse mouth  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Collect spillage  
Dispose of contents/container to ...

### Other Non-GHS Classification:

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

### SECTION 3 : Composition/information on ingredients

#### Ingredients:

CAS 7446-20-0	Zinc Sulfate,ACS	100 %
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Percentages are by weight

### SECTION 4 : First aid measures

#### Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Remove to fresh air. Give artificial respiration if necessary. Seek immediate medical attention or advice. If breathing is difficult, give oxygen.

**After skin contact:** Wash affected area with soap and water. Rinse area with water for 10-15 minutes. Seek immediate medical attention or advice.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention immediately.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek immediate medical attention or advice. Have exposed individual drink sips of water or milk.

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### Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath. Burning of eyes . Redness, tearing. Eye Damage; Eye Damage

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

If seeking medical attention, provide SDS document to physician. Note to physician: Treat symptomatically.

## SECTION 5 : Firefighting measures

### Extinguishing media

**Suitable extinguishing agents:** If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

**For safety reasons unsuitable extinguishing agents:**

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.

### Advice for firefighters:

**Protective equipment:**

**Additional information (precautions):** Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

## SECTION 6 : Accidental release measures

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

Wear protective equipment. Avoid contact with skin and eyes, and clothing. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

### Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Do not allow this material to enter the environment. Clean up spills immediately.

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

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Clean up spills immediately. Always obey local regulations.

### Reference to other sections:

## SECTION 7 : Handling and storage

### Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas.

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

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed.

## SECTION 8 : Exposure controls/personal protection

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**Control Parameters:**

No applicable occupational exposure limits

**Appropriate Engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Respiratory protection:**

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

**Protection of skin:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Eye protection:**

Safety glasses with side shields or goggles.

**General hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

### SECTION 9 : Physical and chemical properties

<b>Appearance (physical state,color):</b>	White Crystals	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not determined Not determined
<b>Odor:</b>	Odorless	<b>Vapor pressure:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>pH-value:</b>	4.0-6.0 aq sol	<b>Relative density:</b>	3.54 @ 25C
<b>Melting/Freezing point:</b>	100 C/212 F	<b>Solubilities:</b>	430g/l in water
<b>Boiling point/Boiling range:</b>	Not determined	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not applicable	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid,gaseous):</b>	Not applicable	<b>Viscosity:</b>	a. Kinematic:Not determined b. Dynamic: Not determined
<b>Density:</b> Not determined			

### SECTION 10 : Stability and reactivity

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### Reactivity:

**Chemical stability:**No decomposition if used and stored according to specifications.

### Possible hazardous reactions:

**Conditions to avoid:**Store away from oxidizing agents, strong acids or bases.Dust. Excess heat

**Incompatible materials:**Strong bases.Calcium. Strontium salts. Alkali carbonates and hydroxides. Silver protein and tannins. Lead

**Hazardous decomposition products:** zinc oxides. sulfur oxides

## SECTION 11 : Toxicological information

<b>Acute Toxicity:</b>		
<b>Oral:</b>	1260mg/kg	LD50 rat:
<b>Chronic Toxicity:</b> No additional information.		
<b>Corrosion Irritation:</b>		
<b>Ocular:</b>	Section 2	Classified as eye damage
<b>Sensitization:</b>	No additional information.	
<b>Single Target Organ (STOT):</b>	No additional information.	
<b>Numerical Measures:</b>	ATE (oral): 5000 mg/kg	
<b>Carcinogenicity:</b>	No additional information.	
<b>Mutagenicity:</b>	No additional information.	
<b>Reproductive Toxicity:</b>	Experiments have shown reproductive toxicity in laboratory animals.	

## SECTION 12 : Ecological information

**Ecotoxicity Persistence and degradability:** Readily degradable in the environment.

**Bioaccumulative potential:**

**Mobility in soil:** Aqueous solution has high mobility in soil.

**Other adverse effects:** Do not allow this material to enter the environment..

## SECTION 13 : Disposal considerations

### Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

## SECTION 14 : Transport information

### UN-Number

3077

### UN proper shipping name

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## Zinc Sulfate, Reagent Grade,

Environmentally Hazardous Substance, solid, n.o.s. (Zinc sulfate)

### Transport hazard class(es)



**Class:**

9 Miscellaneous dangerous substances and articles

### Packing group: III

### Environmental hazard:

### Transport in bulk:

**Name:** Marine Pollutant

**Ship type:** Only if ship in bulk (or non-bulk on vessel)

**Pollution category:** Severe Marine Pollutant

### Special precautions for user:

## SECTION 15 : Regulatory information

### United States (USA)

#### SARA Section 311/312 (Specific toxic chemical listings):

Acute

#### SARA Section 313 (Specific toxic chemical listings):

7446-20-0 Zinc (compounds) [313c]

#### RCRA (hazardous waste code):

None of the ingredients is listed

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

#### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7446-20-0 Zinc Sulfate 1000 lb

### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients is listed

#### Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

#### Chemicals known to cause developmental toxicity:

None of the ingredients is listed

### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

#### Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

## SECTION 16 : Other information

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### Zinc Sulfate, Reagent Grade,

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

#### GHS Full Text Phrases:

#### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

Effective date : 10.24.2014

Last updated : 03.19.2015