

# **astraidiagnostics** Zinc Sulfate Concentrate, 1.180 Specific Gravity

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 08 DEC 2022

# **SECTION 1: Identification**

Identification

Product form : Mixture

Product name : Zinc Sulfate Concentrate, 1.180 Specific Gravity

Product code

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only. Restrictions on use : Not for food, drug or household use

Details of the supplier of the safety data sheet

Astral Diagnostics Inc.

Logan Township NJ 08085 - United States

T +1 856 224 0900

800-441-0366 Technical Service; Monday-Friday: 8:00 AM-5:00 PM, Eastern US Time

www.ethosbiosciences.com

**Emergency telephone number** 

: 800-424-9300 CHEMTREC (USA) -- 24 Hours/Day, 7 Days/Week **Emergency number** 

# SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

#### **GHS-US** classification

Hazardous to the aquatic environment - Acute Hazard Category 1 H400

Full text of H statements : see section 16

#### 2.2. **Label elements**

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS09

: Warning Signal word (GHS-US)

Hazard statements (GHS-US) : H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) : P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards

Other hazards not contributing to the

classification

· None under normal conditions

## **Unknown acute toxicity (GHS US)**

Not applicable

# SECTION 3: Composition/Information on ingredients

#### **Substances** 3.1.

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	% (w/v)	GHS-US classification
Water	(CAS No) 7732-18-5	63	Not classified
Zinc Sulfate, Heptahydrate	(CAS No) 7446-20-0	37	Acute Tox. 4 (Oral), H302 Aguatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

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# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

# 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

# 6.4. Reference to other sections

See section 8. Exposure controls and personal protection.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

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# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# Zinc Sulfate, Heptahydrate (7446-20-0)

Not applicable

# Water (7732-18-5)

Not applicable

#### 8.2. Exposure controls

Appropriate engineering : Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure. Ensure adequate ventilation.

controls Personal protective : Avoid all unnecessary exposure. Gloves. Safety glasses.

equipment



: No data available

: No data available



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless Odor : characteristic Odor threshold : No data available : No data available Hq Melting point : No data available Freezing point : No data available : No data available Boiling point : No data available Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 ℃ : No data available : No data available Relative density Specific gravity / density : 1.18 g/ml Solubility : Soluble in water. Log Pow : No data available

Viscosity, kinematic : 1.82 cSt

Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

# 9.2. Other information

Auto-ignition temperature
Decomposition temperature

No additional information available

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# **SECTION 10: Stability and reactivity**

### Reactivity

No additional information available

#### 10.2. **Chemical stability**

Stable under normal conditions.

### Possibility of hazardous reactions

Not established.

#### 10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids.

# **Hazardous decomposition products**

Sulfur compounds.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

Likely routes of exposure : Skin and eye contact

: Not classified Acute toxicity

Zinc Sulfate, Heptahydrate (7446-20-0)	
LD50 oral rat	1260 mg/kg (Rat)
ATE US (oral)	1260.000 mg/kg body weight

Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified

exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

Ecology - water : Very toxic to aquatic life.

Zinc Sulfate, Heptahydrate (7446-20	I-O)
LC50 fish 2	4.6 ppm (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	0.56 mg/l (EC50; 48 h)
Threshold limit algae 1	.0536.EC50; 72 h

#### 12.2. Persistence and degradability

Zinc Sulfate Concentrate, 1.180 Specific Grav	ity
Persistence and degradability	Not established.

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Zinc Sulfate, Heptahydrate (7446-20-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.

# 12.3. Bioaccumulative potential

Zinc Sulfate Concentrate, 1.180 Specific Gravity	
Bioaccumulative potential	Not established.
Zinc Sulfate, Heptahydrate (7446-20-0)	
BCF fish 1	59 - 242 (BCF)
BCF fish 2	59 - 242 (BCF)
Bioaccumulative potential	Bioaccumable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.

# 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Zinc Sulfate, Heptahydrate (7446-20-0)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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### 15.2. International regulations

#### **CANADA**

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Zinc Sulfate Concentrate, 1.180 Specific Gravity		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Zinc Sulfate, Heptahydrate (7446-20-0)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# **SECTION 16: Other information**

Initial Date : 11 DEC 2013
Revision Date : 08 DEC 2022

#### Full text of H-phrases:

t of Fi-piliases.		
H302	Harmful if swallowed	
H400	Very toxic to aquatic life	
nealth hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
ire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
eactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
	H302 H400 nealth hazard ire hazard	H302 H400 Very toxic to aquatic life  1 - Materials that, under emergency conditions, can cause significant irritation.  1 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.  2 - Material that in themselves are normally stable, even



Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : |

B - Safety glasses, Gloves

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