

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/25/2024 Version: 1.0

## **SECTION 1: Identification**

# 1.1. Identification

Product form : Substance
Substance name : ZINC SULPHIDE
Chemical name : Zinc sulfide
CAS-No. : 1314-98-3
Product code : AR3085
Formula : SZn
Other means of identification : zinc sulphide

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

#### 1.3. Supplier

Alpha Resources LLC 3090 Johnson Rd.

Stevensville, Michigan 49127

USA

T (269)465-5559

info@alpharesources.com - www.alpharesources.com

## 1.4. Emergency telephone number

Emergency number : CHEMTREC Emergency Phone Number: (800) 424-9300

#### **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs through prolonged or repeated exposure

Full text of H statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P314 - Get medical advice/attention if you feel unwell.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation.

## 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## **SECTION 3: Composition/Information on ingredients**

## 3.1. Substances

Substance type : Mono-constituent
Name : ZINC SULPHIDE
CAS-No. : 1314-98-3

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Name	Product identifier	%	GHS US classification
ZINC SULPHIDE	CAS-No.: 1314-98-3	100	STOT RE 2, H373

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

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

## 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe

dust/fume/gas/mist/vapors/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

## **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

## **ZINC SULPHIDE (1314-98-3)**

No additional information available

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No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# Personal protective equipment symbol(s):







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

# 9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: Powder.Color: brown

Odor Characteristic odour Odor threshold : No data available : No data available. pН Melting point : No data available. Freezing point : Not applicable Boiling point : 1180 °C Flash point : Not applicable : No data available Relative evaporation rate (butyl acetate=1) Non flammable. Flammability (solid, gas)

Vapor pressure : No data available
Relative vapor density at 20°C : No data available.
Relative density : 4.16 Source: ECHA

Density : 4.16 g/cm³ Type: 'density' Temp.: 22 °C

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Molecular mass : 97.46 g/mol Source: ECHA

Solubility : Water: 105 mg/l Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature No data available. Decomposition temperature No data available Not applicable Viscosity, kinematic Viscosity, dynamic No data available Not applicable **Explosion limits** Explosive properties No data available Oxidizing properties No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

TINC	CIII	DILLDE	(121/	00 2)
	$\circ$	PHIDE	. 11314	-70-31

LD50 oral rat	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 5700 mg/m³ Source: ECHA

# ZINC SULPHIDE (1314-98-3)

LD50 oral rat	> 2000 mg/kg Source: ECHA	
LC50 Inhalation - Rat	> 5700 mg/m³ Source: ECHA	

Skin corrosion/irritation : Not classified

pH: No data available.

Serious eye damage/irritation : Not classified

pH: No data available.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

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<b>ZINC SULPHIDE (1314-98-3)</b>	
NOAEL (oral,rat,90 days)	31.52 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
ZINC SULPHIDE (1314-98-3)	
NOAEL (oral,rat,90 days)	31.52 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable

# **SECTION 12: Ecological information**

## 12.1. Toxicity

LC50 - Fish [1]

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

ZINC SULPHIDE (1314-98-3)	
LC50 - Fish [1]	> 0.25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
ZINC SULPHIDE (1314-98-3)	

> 0.25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

# 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

## 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

## 14.1. UN number

DOT NA No : Not applicable UN-No. (TDG) : Not applicable UN-No. (IMDG) : 3077 UN-No. (IATA) : 3077

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable Proper Shipping Name (TDG) : Not applicable

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

## 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

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#### **TDG**

Transport hazard class(es) (TDG) : Not applicable

#### **IMDG**

Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9



#### **IATA**

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



## 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable

Packing group (IMDG) : III
Packing group (IATA) : III

## 14.5. Environmental hazards

Other information : No supplementary information available.

## 14.6. Special precautions for user

#### DOT

No data available

#### **TDG**

No data available

## **IMDG**

Special provision (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG): 5 kgExcepted quantities (IMDG): E1Packing instructions (IMDG): LP02, P002Packing provisions (IMDG): PP12IBC packing instructions (IMDG): IBC08IBC special provisions (IMDG): B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A Stowage and handling (IMDG) : SW23

#### IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg

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CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg

Special provision (IATA) : A97, A158, A179, A197, A215

ERG code (IATA) : 9L

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
ZINC SULPHIDE	1314-98-3	Present	Active	

#### 15.2. International regulations

#### **CANADA**

## **ZINC SULPHIDE (1314-98-3)**

Listed on the Canadian DSL (Domestic Substances List)

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Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

National regulations

## **ZINC SULPHIDE (1314-98-3)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

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## Full text of H-phrases

H373 May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.