

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name	Zinc Sulfide, Phosphorescent
CAS number	68611-70-1
Synonyms	Zinc sulfide, copper chloride-doped

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

Identified uses Laboratory chemicals.

# **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone Fax	512-668-9918 512-886-4008

# 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

# 2.2 GHS Label elements, including precautionary statements

None required.

# **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** None identified.

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

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Zinc sulfide, copper chloride-doped	-	68611-70-1	<=100%
Zinc sulfide	-	1314-98-3	-

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

General advice	
lf inhaled	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
If swallowed	Clean mouth with water. Get medical attention.

- **4.2 Most important symptoms and effects, both acute and delayed** None reasonably foreseeable.
- **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	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
	Unsuitable extinguishing media	No information available.			

**5.2** Specific hazards arising from the substance or mixture Non-combustible. Hazardous Combustion Products: Sulfur oxides. Sulfides.

# 5.3 Special 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. Thermal decomposition can lead to release of irritating gases and vapors.

# 5.4 Further information

Flash Point		ation available.	
Autoignition Tempera	ignition Temperature No infor		ation available.
Explosion limits			
Upper	No data a	available.	
Lower	No data a		
Sensitivity	/ to Mechanical Im	No information available.	
Sensitivity	to Static Discharg	No information available.	
NFPA			
Health	Flammability	Instability	Physical hazards
1	0	0	N/A

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

6.1 **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Use personal protective equipment as required.

# 6.2 Environmental precautions

See Section 12 for additional Ecological Information.

**6.3 Methods and materials for containment and cleaning up** Sweep up and shovel into suitable containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

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

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Avoid contact with skin and eyes. Do not breathe dust.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

# Incompatibilities

Acids. Strong oxidizing agents.

# SECTION 8: Exposure controls/personal protection

# 8.1 Occupational exposure limits

## US. ACGIH Threshold Limit Values

Component	Туре	Value
Zinc sulfide, copper chloride-doped	TWA	1 mg/m3

# **Biological occupational exposure limits**

No information available.

# 8.2 Exposure controls

# Appropriate engineering controls

Emergency eyewash and safety shower.

# Personal protective equipment

# Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

# Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Respiratory protection**

Filter-dust, fume, mist respirator.

#### Control of environmental exposure

No information available.

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

# 9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Evaporation Rate	Solid powder Bright green Odorless No information available No information available 1700°C No information available Not applicable
Flammability (solid)	No information available
Flammability or explosive limit Upper Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Density	3.98 - 4.10
Solubility	Insoluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	Not applicable
Molecular Formula	S Zn
Molecular Weight	97.44 g/mol
VOC Content(%)	No information available
Oxidizing properties	No information available

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Reactive hazard.

# 10.2 Chemical stability

Stable under normal conditions.

# **10.3 Possibility of hazardous reactions** None under normal processing.

# **10.4** Conditions to avoid

Incompatible products.

# **10.5** Incompatible materials Acids, Strong oxidizing agents.

**10.6 Hazardous decomposition products** Sulfur oxides, Sulfides.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc sulfide	> 2 g/kg (Rat)	> 2 g/kg (Rat)	> 5040 mg/m3 (Rat) 4h

#### Skin corrosion/irritation

No information available.

#### Serious eye damage/eye irritation

No information available.

# Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Zinc sulfide	1314-98-3	Not listed				

#### Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure None known.

#### **Reproductive toxicity**

No information available.

#### Chronic effects

No information available.

# 11.2 Additional Information

The toxicological properties have not been fully investigated.

## **SECTION 12: Ecological information**

- **12.1 Toxicity** Do not empty into drains.
- **12.2 Persistence and degradability** Insoluble in water.
- **12.3 Bio accumulative potential** No information available.
- **12.4 Mobility in soil** Is not likely mobile in the environment due its low water solubility.
- **12.5 Results of PBT and vPvB assessment** No information available.
- **12.6 Endocrine disrupting properties** No information available.
- **12.7 Other adverse effects** No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information				
DOT (US)	Not regulated.			
IMDG	Not regulated.			
ΙΑΤΑ	Not regulated.			

**SECTION 15: Regulatory information** 

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

> TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed.

> SARA 311/312 Hazardous See Section 2 for more information.

SARA 313 (TRI reporting) Listed, Zinc sulfide (CAS #1314-98-3).

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

#### Clean Water Act (CWA)

Listed, Zinc sulfide (CAS #1314-98-3).

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### **US state regulations**

US. Massachusetts RTK - Substance List Not listed.

US. New Jersey Worker and Community Right-to-Know Act Listed, Zinc sulfide (CAS #1314-98-3).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Zinc sulfide (CAS #1314-98-3).

#### **California Proposition 65**

Not listed.

## **SECTION 16: Other information**

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## **SECTION 17: Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.