

## SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

## 1. Identification

## **Product Name**

## Copper(II) sulfide

No information available

1317-40-4

## Cat No. : CM1847

CAS No Synonyms

nonyms

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

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

## Company

Stanford Advanced Materials, 23661 Birtcher Dr. Lake Forest, CA 92630 USA Tel: +1 (949) 407-8904

Emergency Telephone Number

+1 (949) 407-8904

2. Hazard(s) identification

#### **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Copper(II) sulfide		1317-40-4	<=100			
	4.	First-aid measures				
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute medical attention.						
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Remove to fr	esh air. Get medical attention immediat	ely if symptoms occur.			
Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and None reasonably foreseeable.						
effects Notes to Physician Treat symptomatically						

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible.
Unsuitable Extinguishing Media	No information available
	No information available No information available
Autoignition Temperature Explosion Limits	No information available
	No data available
201101	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Sulfur oxides. Hydrogen sulfide (H2S). Copper oxides.

#### **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.

<u>NFPA</u> Health 0	FlammabilityInstabilityPhysical hazards00-					
	6. Accidental re	lease measures				
Personal Precautions	Ensure adequate ventilation formation.	on. Use personal protective equ	ipment as required. Avoid dust			
Environmental Precautions		•	n 12 for additional Ecological water system. Do not flush into			

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Up

## 7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage.

Handling

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Oxidizing agent.

### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Copper(II) sulfide	TWA: 1 mg/m <sup>3</sup>		IDLH: 100 mg/m <sup>3</sup>	
	_		TWA: 1 mg/m <sup>3</sup>	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	None under normal use conditions.					
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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.					
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.					
Recommended Filter type:	Particle filter.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.					

9. Physical and chemical properties							
Physical State	Solid						
Appearance	Black						
Odor	Practically odorless						
Odor Threshold	No information available						
рН	No information available						
Melting Point/Range	220 °C / 428 °F						
Boiling Point/Range	No information available						
Flash Point	No information available						
Evaporation Rate	Not applicable						
Flammability (solid,gas)	No information available						
Flammability or explosive limits							
Upper	No data available						
Lower	No data available						
Vapor Pressure	No information available						
Vapor Density	Not applicable						
Specific Gravity	4.6 g/cm3						
Solubility	No information available						
Partition coefficient; n-octanol/water	No data available						
Autoignition Temperature	No information available						
Decomposition Temperature	No information available						

Molecular Formula Molecular Weight									
		10. Stab	ility and rea	activity					
Reactive Hazard		None known, based on information available							
Stability		Air sensitive. Moisture sensitive.							
Conditions to Avoid	d	Incompatible prod	ucts.						
Incompatible Mater	ials	Acids, Oxidizing a	gent						
Hazardous Decomp	osition Products	Sulfur oxides, Hyd	lrogen sulfide (H2S	3), Copper oxides					
Hazardous Polymer	rization	Hazardous polyme	erization does not o	occur.					
Hazardous Reaction	ns	None under norma	al processing.						
		11. Toxico	ological info	ormation					
Acute Toxicity									
Product Information Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure									
Delayed and immed	liate effects as w	ell as chronic effe	ects from short an	d long-term expo	sure				
Delayed and immed	<u>liate effects as w</u>	ell as chronic effe No information ava		<u>d long-term expo</u>	<u>sure</u>				
-	<u>liate effects as w</u>		ailable	d long-term expo	sure				
Irritation	<u>liate effects as w</u>	No information ava	ailable ailable			as a carcinogen.			
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Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	May persist			
<b>Bioaccumulation/ Accumulation</b>	No information available.			
Mobility	No information available.			

	13. Disposal considerations
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.

14. Transport information					
DOT	Not regulated				
DOT _ <u>TDG</u> IATA_	Not regulated				
<u>IATA</u>	Not regulated				
IMDG/IMO	Not regulated				
	15. Regulatory information				

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Copper(II) sulfide	1317-40-4	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

#### TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Copper(II) sulfide	1317-40-4	Х	-	215-271-2	-	Х	Х	Х	Х	KE-08957

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Copper(II) sulfide	1317-40-4	<=100	1.0 %	-

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Copper(II) sulfide	-	-	Х	-
Clean Air Act	Not applicable			

**OSHA** - Occupational Safety and Not applicable Health Administration

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Copper(II) sulfide	-	Х	Х	-	-

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	Ν

# U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

#### Authorisation/Restrictions according to EU REACH Not applicable

Component CAS No REACH (1907/2006) -REACH (1907/2006) -**REACH Regulation (EC** 1907/2006) article 59 Annex XIV - Substances Annex XVII - Restrictions on Certain Dangerous Subject to Authorization Candidate List of Substances Substances of Very High Concern (SVHC) Copper(II) sulfide 1317-40-4

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Copper(II) sulfide	1317-40-4	Listed	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### **Other International Regulations**

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Copper(II) sulfide	1317-40-4	Not applicable	Not applicable	Not applicable	Annex I - Y22

### 16. Other information

Prepared By

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Revision Date30-Mar-2024Print Date30-Mar-2024Revision SummaryNew emergency telephone response service provider.

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 SDS**