

# SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 4

# 1. Identification

**Product Name** Strontium sulfide

**CAS No** 1314-96-1

**Synonyms** No information available

**Recommended Use** Laboratory chemicals.

Uses advised against 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 Fax: +1 (949) 812-6690

**Emergency Telephone Number** 

+1 (949) 407-8904

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals Category 1 Acute oral toxicity Category 3 Skin Corrosion/Irritation Category 1 A Category 1

Serious Eye Damage/Eye Irritation

#### **Label Elements**

#### Signal Word

Danger

## **Hazard Statements**

May be corrosive to metals Toxic if swallowed

Causes severe skin burns and eye damage



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

Use only outdoors or in a well-ventilated area

Keep only in original container

Wear respiratory protection

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

#### Ckin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## Ingestion

Rinse mouth

Do NOT induce vomiting

#### Spills

Absorb spillage to prevent material damage

#### **Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# <u>Hazards not otherwise classified (HNOC)</u>

Very toxic to aquatic life

Contact with acids liberates toxic gas

Corrosive to the respiratory tract

# 3. Composition/Information on Ingredients

Component	CAS No			Weight %			
Strontium sulfide			1314-96-1			<=100	

## 4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

Physical hazards

Strontium sulfide

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation**Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should

be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

Instability

and danger of perforation

**Notes to Physician** 

Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Not combustible. CO 2, dry chemical, dry sand, alcohol-resistant foam.

No information available

**Flammability** 

Unsuitable Extinguishing Media No information available

Flash Point No information available No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

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

The product causes burns of eyes, skin and mucous membranes. Do not allow run-off from fire-fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Health

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

#### **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.

Ν	F	P	F	١

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			6. /	Accider	ntal re	lease i	measur	es			
Personal P Environme	recautions ntal Precaut	ions	Do n conta shou	juate ventila ot flush into aminate gro	tion. Keep surface w und water ed if signif	o people av vater or sar system. P	s required. E vay from and nitary sewer revent produ ges cannot b	d upwind system. I uct from e	of spill/leak Do not allow ntering drai	. Avoid dust material to ns. Local au	formation. uthorities

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

## 7. Handling and storage

Strontium sulfide

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on

clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust

formation.

Storage. Store under an inert atmosphere. Protect from moisture. Corrosives area. Keep containers

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

agent.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions. Ensure that eyewash stations and safety showers are

close to the workstation location.

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.

**Respiratory Protection** 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 Grey

Odor Rotten-egg like

Odor Threshold No information available

**pH** Not applicable

Melting Point/Range> 2000 °C / 3632 °FBoiling Point/RangeNo information availableFlash PointNo information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

UpperNo data availableLowerNo data available

Vapor PressureNo information availableVapor DensityNot applicable

Specific Gravity 3.7 g/cm3

**Solubility** No information available

Partition coefficient; n-octanol/water

Autoignition Temperature

No data available

No information available

Decomposition Temperature

Viscosity

No information available
Not applicable

Viscosity Not applica Molecular Formula SrS

Molecular Formula SrS Molecular Weight 119.68

# 10. Stability and reactivity

Strontium sulfide Revision Date 30-Mar-2024

**Reactive Hazard** 

Yes

Stability

Hygroscopic.

**Conditions to Avoid** 

Exposure to moist air or water.

**Incompatible Materials** 

Oxidizing agent

Hazardous Decomposition Products Sulfur oxides, Metal oxides, Hydrogen sulfide (H2S)

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological information

**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

Irritation

No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Strontium sulfide	1314-96-1	Not listed				

**Mutagenic Effects** 

No information available

Reproductive Effects

No information available.

**Developmental Effects** 

No information available.

Teratogenicity

No information available.

STOT - single exposure STOT - repeated exposure

None known None known

Aspiration hazard

No information available

Symptoms / effects,both acute and

delayed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** 

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability

May persist

#### Strontium sulfide

**Bioaccumulation/ Accumulation** 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

UN-No UN3262

Proper Shipping Name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group III

<u>TDG</u>

**UN-No** UN3262

Proper Shipping Name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group III

IATA<sup>®</sup>

UN-No UN3262

Proper Shipping Name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group

IMDG/IMO

UN-No UN3262

Proper Shipping Name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group 8

# 15. Regulatory information

# **United States of America Inventory**

Component		Component CAS No TSCA		SCA .	TSCA Inventory notification -	TSCA - EPA Regulatory		
1		1.1	1	. :	:	Active-Inactive	Flags	: 1
Strontiu	m sulfide		1314-96-1		X,	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**

China, X = listed, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Strontium sulfide	1314-96-1	•	Х	215-249-2	ı	Χ	Χ	•	Х	KE-32250

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

#### U.S. Federal Regulations

#### Strontium sulfide

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

Not applicable

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
Γ	Strontium sulfide	, X	- '	=	-	-

#### **U.S. Department of Transportation**

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

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

No information available

#### Authorisation/Restrictions according to EU REACH

Not applicable

Component		REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Strontium sulfide	1314-96-1	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic	Ozone Depletion	Restriction of
1 1 1	:	: :	Pollutant	Potential	Hazardous
'	1	1	1	1	Substances (RoHS)
Strontium sulfide	1314-96-1	Not applicable	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)
Strontium sulfide	1314-96-1	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Stanford Advanced Materials

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www.samaterials.com

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**Revision Summary** New 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

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