

SAFETY DATA SHEET

Creation Date 21-May-2010

Revision Date 26-Mar-2024

Revision Number 3

1. IdentificationProduct NameZinc sulfideCat No. :13239CAS No
Synonyms1314-98-3
No information availableRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:** 001-703-527-3887

2. Hazard(s) identification

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)

Contact with acids liberates toxic gas

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Zinc sulfide		1314-98-3	100			
	4.	First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.					
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.					
Ingestion	Clean mouth	with water. Get medical attention.				
Most important symptoms and effects						
Notes to Physician						
	5. Fi	re-fighting measures				
Suitable Extinguishing Media	guishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.					
Unsuitable Extinguishing Media	No information	on available				
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information available					
Upper	No data available					
Lower	No data avai					
Sensitivity to Mechanical Impact Sensitivity to Static Discharge						
Specific Hazards Arising from the C Non-combustible.	hemical					
Hazardous Combustion Products						

Sulfur oxides. Sulfides.

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.

NFPA

Health	Flammability	Instability	Physical hazards		
1	0	0	N/A		
	6. Accidental release measures				
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required.				
Environmental Precautions	See Section 12 for additional Ecological Information.				

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage		
Handling	Avoid contact with skin and eyes. Do not breathe dust.		
Storage.Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompa Materials. Acids. Strong oxidizing agents.			
8. E	xposure 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.		
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	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	5-5.5 50 g/L aq.susp
Melting Point/Range	No data available
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	4.100
Solubility	insoluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 400°C
Viscosity	Not applicable
Molecular Formula	S Zn
Molecular Weight	97.44

10. Stability and reactivity

Reactive Hazard

Yes

Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products.			
Incompatible Materials	Acids, Strong oxidizing agents			
Hazardous Decomposition Products Sulfur oxides, Sulfides				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			

Acute Toxicity

Product Information		No acute toxicity information is available for this product							
Component Informa		LD50 Oral		LD50 Dermal	1.050	Inhalation			
Zinc sulfide		LD50 Oral LD50 > 2 g/kg (Rat	:) LD:	50 > 2 g/kg (Rat)		mg/m ³ (Rat) 4 h			
			·			<u> </u>			
Foxicologically Syn Products	ergistic	No information ava	ailable						
Delayed and immed	liate effects	as well as chronic effe	ects from short a	nd long-term expo	sure				
rritation		No information ava	ailable						
Sensitization		No information ava	ailable						
Carcinogenicity		The table below in	dicates whether e	ach agency has list	ed any ingredient	as a carcinogen			
Component	CAS N	D IARC	NTP	ACGIH	OSHA	Mexico			
Zinc sulfide	1314-98	-3 Not listed	Not listed	Not listed	Not listed	Not listed			
Nutagenic Effects		No information ava	ailable						
Reproductive Effec	ts	No information ava	No information available.						
Developmental Effe	ects	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expo STOT - repeated ex		None known None known							
Aspiration hazard		No information ava	ailable						
Symptoms / effects delayed	s,both acute	and None identified	d None identified						
Endocrine Disruptor Information No information available									
Other Adverse Effe	Effects The toxicological properties have not been fully investigated.								
		12. Ecol	ogical infor	mation					
Ecotoxicity Do not empty into dra	ains								
Persistence and Degradability Insoluble in water									

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility	ility Is not likely mobile in the environment due its low water solubility.				
	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 TDG	Not regulated				
TDG	Not regulated				
	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
Zinc sulfide	1314-98-3	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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Zinc sulfide	1314-98-3	Х	-	215-251-3	Х	Х	Х	Х	Х	KE-35583

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
Zinc sulfide	1314-98-3	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.

Not applicable

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Zinc 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	Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Zinc sulfide	-	Х	Х	-	-

U.S. Department of Transportation	
Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
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) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Zinc sulfide	1314-98-3	-	-	-

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)
Zinc sulfide	1314-98-3	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

Com	ponent	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
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		for Major Accident Notification	for Safety Report Requirements		
Zinc sulfide	1314-98-3	Not applicable	Not applicable	Not applicable	Annex I - Y23

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	21-May-2010 26-Mar-2024 26-Mar-2024 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

End of SDS