

SAFETY DATA SHEET

Creation Date 19-Aug-2014

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Zinc, Shot (Certified ACS)

Cat No. : Z12-500

CAS No Synonyms 7440-66-6 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

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 %			
Zinc metal		7440-66-6	>99			
	4. F	First-aid measures				
Eye Contact	Rinse immedia medical attent		ne eyelids, for at least 15 minutes. Get			
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Remove to fre	sh air. Get medical attention immedia	ely if symptoms occur.			
Ingestion	Clean mouth v symptoms occ	with water and drink afterwards plenty cur.	of water. Get medical attention if			
Most important symptoms and	None reasona	bly foreseeable.				
Notes to Physician	effects Notes to Physician Treat symptomatically					
	5. Fir	e-fighting measures				
Suitable Extinguishing Media		ning measures that are appropriate to nvironment. Dry chemical, soda ash, li				
Unsuitable Extinguishing Media	Water					
Flash Point Method -	No informatior No informatior					
Autoignition Temperature	460 °C / 86	0 °F				
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 C Thermal decomposition can lead to re sources of ignition. Do not allow run-c	lease of irritating		d empty container away from heat and			

Hazardous Combustion Products

Nitrogen oxides (NOx). Sulfur oxides. Ammonia.

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.

NFPA

	Health 1	Flammability 1	Instability 0	Physical hazards N/A	
		6. Accidental rel	ease measures		
Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avo formation.					
Environmental Precautions Do not flush into surface water or sanitary sewer system.					

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

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Amines. Combustible material. Peroxides. Metals.
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	Ensure adequate ventilation, especially in confined areas. 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Solid

Light blue Odorless No information available A19 °C / 786.2 °F 908 °C / 1666.4 °F No information available Not applicable No information available No data available No data available 1 mmHg @ 487 °C Not applicable 7.14

7.14 Insoluble in water No data available 460 °C / 860 °F No information available Not applicable Zn

	10. Stabi	lity and rea	activity				
Reactive Hazard	None known, base	d on information a	available				
Stability	Stable under norm	al conditions.					
Conditions to Avoid	Incompatible produ	ucts. Excess heat	Exposure to moist	air or water.			
Incompatible Materials	ncompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Amines, Combustible material, Peroxides, Metals						
Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides, Ammonia							
Hazardous Polymerization	Hazardous polyme	rization does not	occur.				
Hazardous Reactions	None under norma	l processing.					
	11. Toxico	logical inf	ormation				
Acute Toxicity							
Product Information Component Information	No acute toxicity in	formation is avail	able for this produc	t			
Component	LD50 Oral	-+)	LD50 Dermal		Inhalation		
Zinc metal	LD50 = 630 mg/kg (R	,	Not listed		ot listed		
Toxicologically Synergistic Products Delayed and immediate effects a	No information ava		nd long-term expo	sure			
Irritation	No information ava	ilable					
Sensitization	Sensitization No information available						
Carcinogenicity			ach agency has lis	ted any ingredient	as a carcinogen.		
Component CAS No	The table below inc	dicates whether e	ACGIH	OSHA	Mexico		
	The table below inc	dicates whether e					
Component CAS No Zinc metal 7440-66-6	The table below inc	dicates whether e NTP Not listed illable	ACGIH	OSHA	Mexico		
Component CAS No Zinc metal 7440-66-6 Mutagenic Effects	The table below inc IARC Not listed No information ava	dicates whether e NTP Not listed ilable ilable.	ACGIH	OSHA	Mexico		
Component CAS No Zinc metal 7440-66-6 Mutagenic Effects Reproductive Effects	The table below inc IARC Not listed No information ava No information ava	dicates whether e <u>NTP</u> <u>Not listed</u> ilable ilable.	ACGIH	OSHA	Mexico		
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental Effects	The table below inc IARC Not listed No information ava No information ava No information ava	dicates whether e <u>NTP</u> <u>Not listed</u> ilable ilable.	ACGIH	OSHA	Mexico		
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsTeratogenicitySTOT - single exposure	The table below inc IARC Not listed No information ava No information ava No information ava No information ava No information ava No information ava	dicates whether e	ACGIH	OSHA	Mexico		
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsTeratogenicitySTOT - single exposureSTOT - repeated exposure	The table below inc IARC Not listed No information ava No information ava No information ava No information ava No information ava None known None known None known	dicates whether e <u>NTP</u> <u>Not listed</u> ilable ilable. ilable. ilable.	ACGIH	OSHA	Mexico		
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsTeratogenicitySTOT - single exposureSTOT - repeated exposureAspiration hazardSymptoms / effects,both acute at the second	The table below inc IARC Not listed No information ava No information ava No information ava No information ava None known None known None known No information ava No information ava	dicates whether e	ACGIH	OSHA	Mexico		
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Ecotoxicity

The product contains following substances which are hazardous for the environment. Contains a substance which is:. Very toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Zinc metal	EC50: 0.11 - 0.271 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: 0.09 - 0.125 mg/L, 72h static (Pseudokirchneriella subcapitata)	LC50: = 0.41 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 0.59 mg/L, 96h semi-static (Oncorhynchus mykiss) LC50: 2.16 - 3.05 mg/L, 96h flow-through (Pimephales promelas) LC50: 0.211 - 0.269 mg/L, 96h semi-static (Pimephales promelas) LC50: = 2.66 mg/L, 96h static (Pimephales promelas) LC50: = 30 mg/L, 96h (Cyprinus carpio) LC50: = 0.45 mg/L, 96h semi-static (Cyprinus carpio) LC50: = 0.24 mg/L, 96h semi-static (Cyprinus carpio) LC50: = 0.24 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 3.5 mg/L, 96h static (Lepomis macrochirus)	Not listed	EC50: 0.139 - 0.908 mg/L, 48h Static (Daphnia magna)
Persistence and Degrada	ability Insoluble in	water		
Bioaccumulation/ Accum	nulation No informat	ion available.		
Mobility	Is not likely	mobile in the environment du	ue 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	Not regulated				
DOT TDG	Not regulated				
IATA_	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 metal	7440-66-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

Component	CAS No	TSCA 12(b) - Notices of Export
Zinc metal	7440-66-6	Section 5
		Section 6

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 metal	7440-66-6	Х	-	231-175-3	Х	Х		Х	Х	KE-35518

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

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Zinc metal	7440-66-6	>99	1.0

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Zinc metal	-	-	Х	Х

Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Zinc metal	1000 lb	-

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
Zinc metal	Х	Х	Х	-	Х

U.S. Department of Transportation

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

This product does not contain any DHS chemicals.

Security

Other International Regulations

U.S. Department of Homeland

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Zinc metal	7440-66-6	Listed	Not applicable	Not applicable	Not applicable
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)
Zinc metal	7440-66-6	Not applicable	Not applicable	Not applicable	Not applicable

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

16. Other information		
Prepared By	Regulatory Affairs	
	Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Creation Date	19-Aug-2014	
Revision Date	24-Dec-2021	
Print Date	24-Dec-2021	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

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