

SAFETY DATA SHEET

Creation Date 09-May-2012

Revision Date 31-May-2024

Revision Number 3

			1.	Identi	ficatio	n					
Product Name		Zinc w	/ire		1			1			1
Cat No. :		ZN099	3								
CAS No Synonyms	1	7440-66 No infor		vailable	1	:	1		:**	1	
Recommended Use Uses advised against		Laborato Food, di			ocidal prod	uct use.			e.		
Details of the supplier of		-			:			:			
Company Stanford Advanced Materi 23661 Birtcher Dr. Lake F Tel: +1 (949) 407-8904	als					;			;	. '	
Emergency Telephone N +1 (949) 407-8904	lumber	1		1	1	111	1		111	1 1	:

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)

Very toxic to aquatic life

3. Composition/Information on Ingredients

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Zinc metal		CAS No 7440-66-6	-		eight % = 100	
	4. First-a	id measures				
ye Contact	Rinse immediately with medical attention.	plenty of water, also u	nder the eye	lids, for at le	east 15 min	utes. Ge
kin Contact	Wash off immediately w immediately if symptom		at least 15 m	inutes. Get	medical att	ention
halation	Remove to fresh air. If I if symptoms occur.	breathing is difficult, gi	ve oxygen. G	et medical a	attention im	mediate
gestion	Do NOT induce vomitin	g. Get medical attentic	n.			
ost important symptoms and fects	None reasonably forese	eeable.	1		111	1
otes to Physician	Treat symptomatically					
	5. Fire-figh	ting measures	5		1	
nsuitable Extinguishing Media	Water	÷				
Flash Point Method -	No information available No information available					
utoignition Temperature	460 °C / 860 °F		1.1		111	1
xplosion Limits Upper Lower Sensitivity to Mechanical Impa Sensitivity to Static Discharge	No data available No data available ct No information available No information available				:	
pecific Hazards Arising from the	Chemical					
nermal decomposition can lead to re ources of ignition.	elease of irritating gases a	and vapors. Keep prod	uct and empt	y container	away from	heat and
azardous Combustion Products trogen oxides (NOx). Sulfur oxides rotective Equipment and Precaut	ions for Firefighters	a domand MSUA/NIC			lont) and fu	·
s in any fire, wear self-contained br otective gear.	earning apparatus pressur			u or equiva	ient) and fu	
FPA Health	Flammability	Instabil 0	ty	Phy	vsical haza N/A	rds
	6. Accidental	release measu	Ires			
ersonal Precautions	Use personal protective formation.			equate vent	tilation. Avo	id dust
nvironmental Precautions	Should not be released sewer system. See Sec				water or sa	anitary
ethods for Containment and Clea	an Sweep up and shovel in	nto suitable containers	for disposal.	Avoid dust	formation.	

	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.
	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.
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 Appearance Odor Odor Threshold pH Melting Point/Range	Solid; Various Form Grey No information available No information available 419 °C / 786.2 °F
Boiling Point/Range	907 °C / 1664.6 °F

Dennig i entrange				
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			1.3 mbar @ 478 °C	
Vapor Density			Not applicable	
Specific Gravity		11	7.140	1.1
Solubility			Insoluble in water	
Partition coefficient; n-octanol/water			No data available	
Autoignition Temperature			460 °C / 860 °F	
Decomposition Temperature			No information available	
Viscosity	111	1	Not applicable	1
Molecular Formula			Zn	
Molecular Weight			65.36	

10. Stability and reactivity

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eactive Hazard	None known, based on in	tormation a	available				,
Stability	Stable under normal conc	litions.					
Conditions to Avoid	Incompatible products. Ex	cess heat.	Avoid dust fo	rmation			·
ncompatible Materials	Strong oxidizing agents, S Peroxides, Metals	Strong acid	s, Strong base	es, Amir	ies, Combusti	ible materi	ial,
lazardous Decomposition Product	s Nitrogen oxides (NOx), Si	ulfur oxides	, Ammonia				
lazardous Polymerization	Hazardous polymerization	n does not o	occur.				
lazardous Reactions	None under normal proce	essing.			· .		. '
	11. Toxicologi	cal info	ormation	I			
Acute Toxicity				1.1			1.1
Product Information Component Information	No acute toxicity informat	ion is availa	able for this pr	oduct			
Component	LD50 Oral		LD50 Dermal			50 Inhalatic	on 🗥
Zinc metal	LD50 = 630 mg/kg (Rat)		Not listed			Not listed	
Foxicologically Synergistic Products	No information available	÷.,				-	
Delayed and immediate effects as w	vell as chronic effects fro	m short an	nd long-term	exposu	re		
rritation	No information available						
Sensitization	No information available		111	·		: * *	·
Carcinogenicity	The table below indicates	whether ea	ach agency ha	as listed	any ingredier	nt as a car	cinoge
Component CAS No	IARC	NTP	ACGIH		OSHA	M	exico
Component CAS No Zinc metal 7440-66-6	IARC Not listed Not					M	
ComponentCAS NoZinc metal7440-66-6	IARC	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic Effects	IARC Not listed Not	NTP	ACGIH		OSHA	M	exico
	IARCNot listedNotNo information available	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive Effects	IARCNot listedNotNo information availableNo information available.	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental Effects	IARCNot listedNoNo information availableNo information available.No information available.	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsFeratogenicitySTOT - single exposure	IARC Not listed No No information available No No information available. No information available. No information available. No information available. No information available. No information available.	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsFeratogenicitySTOT - single exposureSTOT - repeated exposure	IARCNot listedNotNo information availableNo information available.No information available.No information available.No information available.None knownNone knownNo information available	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsFeratogenicitySTOT - single exposureSTOT - repeated exposureSTOT - repeated exposureAspiration hazardSymptoms / effects,both acute and	IARCNot listedNotNo information availableNo information available.No information available.No information available.No information available.None knownNone knownNo information available	NTP	ACGIH		OSHA	M	exico
ComponentCAS NoZinc metal7440-66-6Mutagenic EffectsReproductive EffectsDevelopmental EffectsFeratogenicitySTOT - single exposureSTOT - repeated exposureSTOT - repeated exposureAspiration hazardSymptoms / effects,both acute anddelayed	IARCNot listedNotNo information availableNo information available.No information available.No information available.No information available.None knownNone knownNo information availableNo information availableNo information availableNo information availableNo information availableNo information availableNo information available	NTP ot listed	ACGIH Not listed		OSHA	M	exico

	Comp	onent	' Fr€	eshwater Algae	Freshwater Fish	1	Microtox	1	Water I	Flea 1
	Zincı	metal	EC50:	0.09 - 0.125 mg/L	LC50: = 0.41 mg/L, 96	h	Not listed		EC50: 0.139 -	0.908 mg/L
				72h static	static (Oncorhynchus				48h Static (Dap	nnia magna
			(Ps	eudokirchneriella	mykiss)				· ·	0
			(subcapitata)	LC50: = 0.59 mg/L, 96	h				
			ECE0.	0.11 - 0.271 mg/L			1			1
			E030.			us				
			(5	96h static	mykiss)					
				eudokirchneriella	LC50: 2.16 - 3.05 mg/L, 9					
				subcapitata)	flow-through (Pimephale	es				
					promelas)				1	
					LC50: 0.211 - 0.269 mg					
					96h semi-static (Pimepha	ales				
					promelas)					
					LC50: = 2.66 mg/L, 96I	h		1		. *
					static (Pimephales	1				
					promelas)					
					LC50: = 30 mg/L, 96h					
					(Cyprinus carpio)	L				
					LC50: = 0.45 mg/L, 96					
	1				semi-static (Cyprinus car	pio)		:		
					LC50: = 7.8 mg/L, 96h st	atic				
					(Cyprinus carpio)					
					LC50: = 0.24 mg/L, 96I	h				
					flow-through (Oncorhyncl	hus				
					mykiss)					
					LC50: = 3.5 mg/L, 96h sta	atic				
					(Lepomis macrochirus)					
						·	1			
в	ioaccumula	and Degrad	-		tion available.	nt due its lov	water sol	ubility		
в		-	-	n No informa		nt due its lov	v water sol	ubility.		·
в м	ioaccumula lobility	ation/ Accu	mulation	n No information No information information No information information in the No informa	tion available. mobile in the environme isposal conside	erations	5			·
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B M	ioaccumula lobility	ation/ Accu	mulation	n No information Is not likely 13. D Chemical w hazardous	tion available. mobile in the environme Disposal conside vaste generators must de waste. Chemical waste g	erations termine whe generators n	ther a disc	arded o	ocal, regional,	and
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B M	ioaccumula lobility	ation/ Accu	mulation	n No information is not likely 13. D Chemical w hazardous national haz	tion available. mobile in the environment of sposal consider vaste generators must de waste. Chemical waste g zardous waste regulation	erations termine whe generators n is to ensure	ther a disc	arded o	ocal, regional,	and
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	ioaccumula lobility /aste Dispo <u>OT</u>	ation/ Accu	mulation	n No information Is not likely 13. D Chemical w hazardous national hat 14. Not regulate	tion available. mobile in the environmen Disposal conside vaste generators must de waste. Chemical waste g zardous waste regulation Transport infor ed	erations termine whe generators n is to ensure	ther a disc	arded o	ocal, regional,	and
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	ioaccumula lobility /aste Dispo OT TDG ATA MDG/IMO nited State Cor Zir egend:	s of Americ mponent nc metal	Is ca Inven	n No information Is not likely 13. D Chemical with hazardous national hat 14. Not regulate Not regulate Not regulate Not regulate 15. F tory CAS No 7440-66-6	tion available. mobile in the environment Disposal conside vaste generators must de waste. Chemical waste generators vaste regulation Transport infor ed ed ed ed ed Regulatory infor TSCA	erations termine whe generators n is to ensure mation rmation	ther a disc nust also co complete a	arded c onsult le nd acc	tsca - EPA	and ition.
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TSCA - Per 40 CFR 751, Regulation of Certain Chemical	Not applicable	
Substances & Mixtures, Under TSCA Section 6(h) (PBT)		and the second
TSCA 12(b) - Notices of Export	Not applicable	

Component		CAS No	TS	SCA 12(b)	Notices of Ex	(port
Zinc metal		7440-66-6		Se	ection 5	
				Se	ection 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

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 metal	7440-66-6	<= 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	CV	VA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Zinc metal		-		X	X

Clean Air Act 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) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Zinc metal	1000 lb		454 kg 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	X	-	Х		
I	U.S. Department of Tran Reportable Quantity (RQ): DOT Marine Pollutant			ut at	··· .:	: 1		

Zinc wire

DOT Severe Marine Pollutant

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

Ν

÷.	Component		CAS	5 No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)		
	Zinc metal		7440	-66-6	-	Use restricted. See item	-		
	1.1	1		111		75. (see link for restriction details)			

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 metal	7440-66-6	Listed	Not applicable	Not applicable	Not applicable

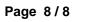
Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Compon	ent		CAS No	Seveso III Directiv (2012/18/EC) - Qualifying Quantiti for Major Acciden Notification	(201 es Qualify it for Sa	o III Directive 2/18/EC) - ing Quantities afety Report uirements	Conve	terdam ntion (PIC)		onvention ous Waste)		
Zinc met	e te mmary	Zinc metal		7440-66-6	Not applicable	Not	Not applicable		Not applicable		Not applicable	
	: • •	÷		111 - 111 -		: * *	1		111	1		
				16. Other ir	nforma	ition						
Prepared By	1		sales@	rd Advanced Materia)samaterials.com amaterials.com	ls Email:							
Creation Date Revision Date Print Date Revision Summ	anv		31-Ma 31-Ma	y-2012 y-2024 y-2024 mergency telephone		service prov		4	1			
	lal y		new e	mergency telephone	response	service prov	idei.					
	n provide	d in th	is Safety Dat	a Sheet is correct t en is designed only	o the bes	t of our kno	wledge,	information	and belie	ef at the		

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

	Zinc wire	:		1	:			:		Revisio	on Date 31	1-May-2024
'	÷.,		. '		1	End of S	SDS				1	
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