

Version	Revision Date:	SDS Number:	Date of last issue: 12/06/2019
2.1	04/11/2024	102000029163	Date of first issue: 03/26/2018

SECTION 1. IDENTIFICATION

Product name	: E-900 RP - EAP
Product code	: 046313SA0
Manufacturer or supplier's	details
Company name of supplier	: ECKART America Corporation
Address	: 830 East Erie Street
	Painesville OH 44077
Telephone	: 866-458-7837
	(440) 954-7600
Telefax	: (440) 354-6224
e-mail adresse	: info.eckart.america.oh@altana.com
Emergency telephone	: CHEMTREC: 800-424-9300
	CHEMTREC: 1-703-527-3387 (International)
	NCEC:
	(contract no. ECKART29003-NCEC)
	US: +1 866 928 0789 (Toll free)
	Canada: +1 800 579 7421 (Toll Free)
	Mexico: +52 55 5004 8763

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in according 1910.1200)	ce with the OSHA Hazard Communicatio	n Standard (29 CFR
Flammable solids	Category 1	
Combustible dust		
Acute toxicity (Oral)	Category 4	
Eye irritation	Category 2A	
GHS label elements Hazard pictograms		
Signal Word	Danger	
Hazard Statements	H228 Flammable solid. May form combustible dust concentrations H302 Harmful if swallowed.	s in air.
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		H319 Causes s	erious eye irritation.
Preca	autionary Statements	[:] Prevention:	
		P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
		P240	Ground/bond container and receiving
		P241	equipment. Use explosion-proof electrical/ventilating/ lighting/ equipment.
		P264	Wash skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P280	Wear protective gloves/ eye protection/ face protection.
		Response:	
		P301 + P312 +	P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
		P305 + P351 +	
		P337 + P313	If eye irritation persists: Get medical advice/ attention.
		P370 + P378	In case of fire: Use for extinction: Special powder for metal fires.
		P370 + P378	In case of fire: Use for extinction: Dry sand.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label: Copper

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Copper	7440-50-8	>= 70 - < 90
Zinc	7440-66-6	>= 10 - < 20



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Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Take the victim into fresh air. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If symptoms persist, call a physician. Wash off immediately with soap and plenty of water. If on skin, rinse well with water.
In case of eye contact	:	If on clothes, remove clothes. Immediately flush eye(s) with plenty of water. Remove contact lenses.
If swallowed	:	Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Keep respiratory tract clear.
		Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Causes serious eye irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting	:	Special powder against metal fire Dry sand ABC powder Water High volume water jet Carbon dioxide (CO2) Do not allow run-off from fire fighting to enter drains or water courses.
Further information Special protective equipment for fire-fighters		Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers. Wear self-contained breathing apparatus for firefighting if necessary.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition.
General advice	:	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains.
		Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Use mechanical handling equipment.
		Pick up and transfer to properly labeled containers.
		Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
		Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	:	Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid contact with skin and eyes.



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Co	nditions for safe storage	 Smoking, eat application an Dispose of rin regulations. Electrical inst the technolog Keep away fu Do not store Keep contain To maintain p sunlight. No smoking. 	protection see section 8. ing and drinking should be prohibited in the rea. nse water in accordance with local and national callations / working materials must comply with gical safety standards. rom sources of ignition - No smoking. near combustible materials. ers tightly closed in a cool, well-ventilated place. product quality, do not store in heat or direct er tightly closed in a dry and well-ventilated
me	chnical easures/Precautions aterials to avoid	Electrical inst the technolog Protect from Keep away fu strongly acid	callations / working materials must comply with gical safety standards. humidity and water. rom oxidizing agents, strongly alkaline and materials in order to avoid exothermic reactions. together with oxidizing and self-igniting products.
	rther information on prage stability	: Keep in a dry	place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Copper	7440-50-8	TWA	1 mg/m3 (Copper)	ACGIH
		TWA (dust and mists)	1 mg/m3 (Copper)	NIOSH REL
		TWA	1 mg/m3 (Copper)	OSHA P0
		TWA	0.2 mg/m3 (Copper)	ACGIH
		TWA	0.1 mg/m3 (Copper)	OSHA P0
		TWA (Dust and mist)	1 mg/m3 (Copper)	ACGIH
		TWA	0.2 mg/m3	ACGIH

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		(Fumes)	(Copper)	
		TWA (Dust)	1 mg/m3	NIOSH REL
			(Copper)	
		TWA (Mist)	1 mg/m3	NIOSH REL
			(Copper)	
		TWA (dusts	1 mg/m3	OSHA Z-1
		and mists)	(Copper)	
		TWA	0.1 mg/m3	OSHA Z-1
		(Fumes)	(Copper)	
		TWA	0.1 mg/m3	OSHA P0
		(Fumes)	(Copper)	
		TWA (Dust	1 mg/m3	OSHA P0
		and mist)	(Copper)	
Zinc	7440-66-6	TWA (total	50 Million	OSHA Z-3
		dust)	particles per cubic	
		TA (A) (4 A A	foot	00110 7 0
		TWA (total	15 mg/m3	OSHA Z-3
		dust)		
		TWA	5 mg/m3	OSHA Z-3
		(respirable		
		fraction)		
		TWA	15 Million	OSHA Z-3
		(respirable	particles per cubic	
		fraction)	foot	

Personal protective equipm	ent	
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires. Respirator with a dust filter P1 filter
Hand protection		
Material	:	Leather
Remarks	:	Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Recommended preventive skin protection
		The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Safety glasses Wear face-shield and protective suit for abnormal processing problems.



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	and body protection	:	concentration of General industria Do not smoke. Wash hands bef Keep away from Keep away from When using do r When using do r	protective suit otection according to the amount and the dangerous substance at the work place. al hygiene practice. ore breaks and at the end of workday. food and drink. tobacco products. not eat or drink.
SECTION	9. PHYSICAL AND CHE	ΕΜΙΟ	CAL PROPERTIE	S
Color Odor Odor pH Meltir			powder gold characteristic No data availab substance/mixtu > 900 °C No data availab	ure is non-soluble (in water)
range Flash Evap	••••••	:	No data availab No data availab	le
			combustible du	st
flamn Lowe	r explosion limit / Upper nability limit r explosion limit / Lower nability limit	:	No data availab No data availab	
	r pressure ive density ity	:	No data availab No data availab 8 - 9 g/cm3	
Wa Partiti octan	bility(ies) ater solubility ion coefficient: n- iol/water gnition temperature	:	insoluble No data availab No data availab	
	gnition temperature mposition temperature	:	No data availab No data availab	



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Viscos	sity	:	No data availa	able
SECTION	10. STABILITY AND	REAC	TIVITY	
	cal stability pility of hazardous	:	No decompos Stable under i No hazards to No decompos	sition if stored and applied as directed. sition if stored and applied as directed. recommended storage conditions. be specially mentioned. sition if stored and applied as directed. n explosive mixture in air.
Condi	tions to avoid	:	Heat, flames a	and sparks.
ECTION	11. TOXICOLOGICAL	. INF	ORMATION	
Harmf	toxicity ul if swallowed.			
	<u>onents:</u>			
Coppe Acute	ər: oral toxicity	:	Assessment: T single ingestio	he component/mixture is moderately toxic after n.
Zinc:				
	oral toxicity	:	(Rat): > 2,000	mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 5.4 Exposure time Test atmosphe	: 4 h
	corrosion/irritation assified based on ava	ilable	information.	
<u>Comp</u>	onents:			
Coppe Remai	e r: ˈks: May cause skin iı	ritatio	n in susceptible	persons.
	u s eye damage/eye i s serious eye irritatio		on	
<u>Comp</u>	onents:			
Coppe Result	er: : Eye irritation			
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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Components:

Copper:

Remarks: No data available

Zinc:

Remarks: No data available





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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Copper: M-Factor (Acute aquatic toxicity) M-Factor (Chronic aquatic toxicity)	:	
Ecotoxicology Assessment Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
Zinc: M-Factor (Acute aquatic toxicity) M-Factor (Chronic aquatic toxicity) Ecotoxicology Assessment Acute aquatic toxicity Chronic aquatic toxicity Persistence and degradabili	:	
No data available	τy	
Bioaccumulative potential No data available		
Other adverse effects No data available		
Components:		
Copper: Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Zinc:



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	ional ecological nation	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. quatic life with long lasting effects.
ECTION	13. DISPOSAL CON	SIDERATIONS	
•	osal methods		
•	osal methods e from residues	courses or the Do not contam chemical or us Send to a licen	inate ponds, waterways or ditches with

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code Marine pollutant	: : :	UN 3089 Metal powders, flammable, n.o.s. 4.1 II FLAMMABLE SOLID 170 no
International Regulations		
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	: : : : : : : : : : : : : : : : : : : :	UN 3089 Metal powder, flammable, n.o.s. 4.1 Il Flammable Solid 448 445
IMDG-Code UN number	:	UN 3089



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Class Packin Labels EmS C	Code pollutant	(Copper metal p : 4.1 : II : 4.1 : F-G, S-G : yes : IMDG Code seg	ER, FLAMMABLE, N.O.S. bowder) gregation group 7 - Heavy metals and their de segregation group 15 - Powdered metals

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ
		(lbs)
Copper	7440-50-8	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Flammable (gases, aeroso Combustible dust Acute toxicity (any route o Serious eye damage or ey	f exposure)	ds)
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:		orting levels
		Copper	7440-50-8	>= 70 - < 90 %
		Zinc	7440-66-6	>= 10 - < 20 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

Section 311, Table 116.4A. This product does not contain a Section 311, Table 117.3.	any Hazardous Chemicals	s listed under the U.S. CleanWater Act, listed under the U.S. CleanWater Act, under the U.S. Clean Water Act Section 307 84 %			
Zinc	7440-66-6	14.25 %			
This product contains the follow Copper	wing priority pollutants rela 7440-50-8	ted to the U.S. Clean Water Act: 84 %			
Zinc	7440-66-6	14.25 %			
US State Regulations					
Massachusetts Right To Kno	W				
Copper		7440-50-8			
Zinc		7440-66-6			
Pennsylvania Right To Know					
Copper		7440-50-8			
Zinc		7440-66-6			
Aluminum		7429-90-5			

California Prop. 65



WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances	
Copper	7440-50-8
Zinc	7440-66-6



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0.114			
Califo		posure Limits for Ch	emical Contaminants
	Copper		7440-50-8
	Zinc		7440-66-6
The i	ngredients of this pr	oduct are reported ir	the following inventories:
DSL			s of this product are on the Canadian DSL
TSCA	L .	: On TSCA Inve	htory
TSCA	list		
No su	ubstances are subject	to a Significant New U	se Rule.
No. or	hotopoo oro oubioot	to TCCA 10(b) over at	notification requirements
INO SU			notification requirements.
SECTION	16. OTHER INFORM	ATION	
Full to	ext of other abbrevia	ations	
ACGI			hreshold Limit Values (TLV)
	H REL		ecommended Exposure Limits

NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3
		Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek
OSHA P0/TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory



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of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very **Bioaccumulative**

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The information provided in this Material 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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