

eConduct Copper 122000

Version	Revision Date:	SDS Number:	Date of last issue: 12/06/2019
3.0	04/04/2024	102000021790	Date of first issue: 03/21/2018

SECTION 1. IDENTIFICATION

Product name Product code	:	eConduct Copper 122000 010352GK2
Manufacturer or supplier's d	leta	ils
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 accort 1910.1200)	rdan	ce with the OSH	A Hazard Communication Standard (29 CFR
Acute toxicity (Oral)	:	Category 4	
Eye irritation	:	Category 2A	
GHS label elements Hazard pictograms	:	(!)	
Signal Word	:	Warning	
Hazard Statements	:	H302 Harmful if H319 Causes s	swallowed. erious eye irritation.
Precautionary Statements	:	Prevention: P264 P270	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this
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		P280	product. Wear eye protection/ face protection.
		Response: P301 + P312 + P330 IF SWALLOWED: Call a POIS CENTER/ doctor if you feel unwell. R mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously for several minutes. Remove contact present and easy to do. Continue rins P337 + P313 If eye irritation persists: Get medical attention.	
		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				
Silver	7440-22-4	>= 20 - < 30				
Actual concentration is withheld as a trade secret						

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. Do not leave the victim unattended.
lf inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.



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	se of skin contact se of eye contact	: Flush eyes with Remove conta	ediately with soap and plenty of water. n water as a precaution. ct lenses. open while rinsing.
lf swa	allowed	If eye irritation Immediately flu Remove conta Keep eye wide If eye irritation : Keep respirato Do not give mi	persists, consult a specialist. ush eye(s) with plenty of water. ct lenses. open while rinsing. persists, consult a specialist.
Most important symptoms and effects, both acute and delayed		If symptoms p Induce vomitin Keep respirato Do not give mi Never give any	ersist, call a physician. g immediately and call a physician. ry tract clear. k or alcoholic beverages. thing by mouth to an unconscious person. ersist, call a physician. lowed.

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. Do not allow run-off from fire fighting to enter drains or water courses.
Further information	:	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. 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. Wear self-contained breathing apparatus for firefighting if



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for fir	e-fighters	necessary. Wear self-cont necessary.	ained breathing apparatus for firefighting if
ECTION	6. ACCIDENTAL RELE	ASE MEASURES	
prote	onal precautions, ctive equipment and gency procedures	Use personal p Evacuate pers	g dust. urces of ignition. protective equipment. onnel to safe areas. protective equipment. mation.
	ral advice onmental precautions	courses or the Prevent produ Prevent further If the product of respective auth	ct from entering drains. r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform
		courses or the Prevent produ Prevent furthe	soil. ct from entering drains. r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform
	ods and materials for inment and cleaning up	: Keep in suitab	le, closed containers for disposal.
		Use mechanica	al handling equipment.
		Pick up and tra	insfer to properly labeled containers.
		Keep in suitab	le, closed containers for disposal.

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		Avoid dust formation.	
		Normal measures for preventive fire p	rotection.
Advice on protection against fire and explosion	:	Keep away from open flames, hot surf ignition.	aces and sources of



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		Provide appro is formed.	priate exhaust ventilation at places where dust
Advic	ce on safe handling	dusts do not a Avoid formatic Do not breathe Avoid contact For personal p Smoking, eatir application are	ekeeping should be instituted to ensure that ccumulate on surfaces. on of respirable particles. e vapors/dust. with skin and eyes. protection see section 8. ng and drinking should be prohibited in the
Cond	litions for safe storage	: Electrical insta the technologi Keep away fro Do not store no Keep containe To maintain pr sunlight. Keep containe place. Containers wh kept upright to Electrical insta	Illations / working materials must comply with cal safety standards. on sources of ignition - No smoking. ear combustible materials. rs tightly closed in a cool, well-ventilated place. oduct quality, do not store in heat or direct r tightly closed in a dry and well-ventilated ich are opened must be carefully resealed and prevent leakage. Illations / working materials must comply with cal safety standards.
	nical ures/Precautions rials to avoid	: Protect from h	umidity and water.
water		strongly acid n	naterials in order to avoid exothermic reactions. ogether with oxidizing and self-igniting products.
	er information on ge stability	: Keep in a dry p	place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
Copper	7440-50-8	TWA	1 mg/m3	ACGIH
			(Copper)	
		TWA (dust	1 mg/m3	NIOSH REL

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			and mists)	(Copper)	
			TWA	1 mg/m3	OSHA PO
				(Copper)	
			TWA	0.2 mg/m3	ACGIH
				(Copper)	
			TWA	0.1 mg/m3 (Copper)	OSHA PO
			TWA (Dust	1 mg/m3	ACGIH
			and mist)	(Copper)	
			TWA	0.2 mg/m3	ACGIH
			(Fumes)	(Copper)	
			TWA (Dust)	1 mg/m3	NIOSH R
				(Copper)	
			TWA (Mist)	1 mg/m3	NIOSH R
				(Copper)	
			TWA (dusts	1 mg/m3	OSHA Z-
			and mists)	(Copper)	00114 7
			TWA	0.1 mg/m3	OSHA Z-
			(Fumes) TWA	(Copper) 0.1 mg/m3	OSHA PO
			(Fumes)	(Copper)	
			TWA (Dust	1 mg/m3	OSHA PO
			and mist)	(Copper)	
Silver		7440-22-4	TWA	0.1 mg/m3	ACGIH
			TWA (Dust)	0.01 mg/m3	NIOSH R
			TWA	0.01 mg/m3	OSHA PO
			TWA	0.01 mg/m3	OSHA PO
			TWA	0.01 mg/m3 (Silver)	OSHA Z-
			TWA (Dust and fume)	0.1 mg/m3	ACGIH
			TWA (Dust)	0.01 mg/m3	NIOSH R

Personal protective equipment

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







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Еуе р	protection	break through producer and t preventive skir The suitability with the produ : Eye wash bott Safety glasses Tightly fitting s Wear face-shie	for a specific workplace should be discussed cers of the protective gloves. le with pure water	
Skin and body protection		Choose body concentration of Long sleeved of Safety shoes Dust imperviou	us protective suit	
Hygiene measures		concentration of When using do Wash hands b General indust Do not smoke. Wash hands b Keep away fro Keep away fro When using do When using do	 Choose body protection according to the amount and concentration of the dangerous substance at the work place When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. General industrial hygiene practice. Do not smoke. Wash hands before breaks and at the end of workday. Keep away from food and drink. Keep away from tobacco products. When using do not smoke. Wash hands before breaks and at the end of workday. 	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold pH Melting point/range	:	powder copper characteristic No data available substance/mixture is non-soluble (in water) 900 - 1,000 °C
Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Upper explosion limit / Upper flammability limit	:	Not applicable No data available No data available Combustible Solids No data available
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flam Vapo Rela Dens Solu W Parti octa Auto Deco	er explosion limit / Lower mability limit or pressure tive density sity bility(ies) /ater solubility tion coefficient: n- nol/water ignition temperature omposition temperature osity	 No data available No data available No data available No data available insoluble No data available 	e e e e
SECTION	1 10. STABILITY AND RI	EACTIVITY	
Reactivity:No decomposition if stored and applied as directed.Chemical stability:No decomposition if stored and applied as directed. No decomposition if stored and applied as directed.Possibility of hazardous reactions:Stable under recommended storage conditions. No hazards to be specially mentioned. No decomposition if stored and applied as directed. Dust may form explosive mixture in air.		on if stored and applied as directed. on if stored and applied as directed. ommended storage conditions. e specially mentioned. on if stored and applied as directed.	
Cond	ditions to avoid	: No data available	e
SECTION	I 11. TOXICOLOGICAL	NFORMATION	
Harm <u>Com</u> Cop	te toxicity nful if swallowed. a ponents: per: e oral toxicity	: Assessment: The single ingestion.	component/mixture is moderately toxic after
-	corrosion/irritation	ble information.	
Com	ponents:		
Сор	per:		

Remarks: May cause skin irritation in susceptible persons.





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Serio	us eye damage/eye i	rritation			
	es serious eye irritation				
<u>Com</u>	oonents:				
Copp Resul	er: t: Eye irritation				
Resp	iratory or skin sensiti	zation			
•••••	sensitization lassified based on ava	lable 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	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.				
OSH	A		this product present at levels greater than or on OSHA's list of regulated carcinogens.		
NTP			his product present at levels greater than or dentified as a known or anticipated carcinogen		
Repro	oductive toxicity				

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.





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Further information

Components:

Copper:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Copper:		
M-Factor (Acute aquatic	:	10
toxicity) M-Factor (Chronic aquatic toxicity)	:	10
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
Silver:		
M-Factor (Acute aquatic	:	10
toxicity) M-Factor (Chronic aquatic toxicity)	:	10
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
Persistence and degradabili	ity	
Bioaccumulative potential No data available		
Other adverse effects No data available		
Components:		
Copper:		



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Additi inform	ional ecological nation	unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. Iquatic life with long lasting effects.
SECTION	13. DISPOSAL CONS	IDERATIONS	
Dispo	sal methods		
Waste	 Waste from residues The product should not be allowed to enter drains courses or the soil. Do not contaminate ponds, waterways or ditches chemical or used container. Send to a licensed waste management company The product should not be allowed to enter drains courses or the soil. Do not contaminate ponds, waterways or ditches chemical or used container. 		soil. ninate ponds, waterways or ditches with sed container. nsed waste management company. hould not be allowed to enter drains, water soil. ninate ponds, waterways or ditches with
Conta	iminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. 	

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

IATA-DGR UN/ID No. Proper shipping name	 : UN 3077 : Environmentally hazardous substance, solid, n.o.s. (paint related material)
Class	: 9
Packing group	: III
Labels	: Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956

IMDG-Code





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	umber er shipping name	: UN 3077 : ENVIRONMEI N.O.S. (paint related	NTALLY HAZARDOUS SUBSTANCE, SOLID,
Class Packing group Labels EmS Code Marine pollutant Remarks		: 9 : III : 9 : F-A, S-F : yes	egregation group 7 - Heavy metals and their
Rema	rks	packagings control inner packagi	ckagings <=5L / 5 kg, or combination ontaining inner packagings <= 5L / 5 kg net per ng, SV375 ADR, 2.10.2.7 IMDG-Code, A197 ay be applied.

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)
Silver	7440-22-4	1000

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.

e 1	• •	oorting levels
Copper	7440-50-8	>= 70 - < 90 %
Silver	7440-22-4	>= 20 - < 30 %
	Serious eye damage or eye The following component established by SARA Title Copper	



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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).

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

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307 Copper 80 % 7440-50-8

Silver	7440-22-4	20 %
Oliver	7440-22-4	20 /0

This product contains the following priority pollutants related to the U.S. Clean Water Act:

7440-22-4

Copper	7440-50-8	
Silver	7440-22-4	

US State Regulations

Massachusetts Right To Know	
Copper	7440-50-8
Silver	7440-22-4
Pennsylvania Right To Know	
Copper	7440-50-8
Silver	7440-22-4

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

80 % 20 %





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	Silver		7440-22-4
Califo	ornia Permissible Ex	posure Limits for Ch	emical Contaminants
	Copper		7440-50-8
	Silver		7440-22-4
The ingredients of this product are reported in the following inventories:DSL:TSCA:All components of this product are on the Canadian DS::All substances listed as active on the TSCA inventory			s of this product are on the Canadian DSL
TSCA	list		

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviatio	ns
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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)	
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	
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	

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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