



Version	Revision Date:	SDS Number:	Date of last issue: 03/01/2023
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SECTION 1. IDENTIFICATION

		METALSTAR EB 21-3054 GOLD 046417DP0		
Manufacturer or supplier's de	eta	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 action 1910.1200)	cordance with the OSHA Hazard Communication Standard (29 CFR
Acute toxicity (Oral)	: Category 4
Eye irritation	: Category 2A
Skin sensitization	: Category 1
Carcinogenicity	: Category 2
GHS label elements Hazard pictograms	
Signal Word	: Warning
Hazard Statements	 H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
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		H351 Suspect	ed of causing cancer.
Preca	utionary Statements	Prevention:	
		P201 P202	Obtain special instructions before use. Do not handle until all safety precautions ha
		P261 P264	been read and understood. Avoid breathing mist or vapors. Wash skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P272	Contaminated work clothing must not be allowed out of the workplace.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P301 + P312 +	 P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
		P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
		P305 + P351 +	for several minutes. Remove contact lenses
		P308 + P313	present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advi attention.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P337 + P313	If eye irritation persists: Get medical advice attention.
		P363	Wash contaminated clothing before reuse.
		Storage: P405	Store locked up.
		Disposal:	
		P501	Dispose of contents/ container to an approvement of the second se

Hazardous ingredients which must be listed on the label: Copper Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-[(1oxo-2-propen-1-yl)oxy]-Polyester acrylate





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Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate 2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Copper	7440-50-8	>= 30 - < 50
2-Propenoic acid, 1,1'-[2-[[2,2-bis[[(1-oxo-2- propen-1-yl)oxy]methyl]butoxy]methyl]-2- ethyl-1,3-propanediyl] ester	94108-97-1	>= 30 - < 50
Poly(oxy-1,2-ethanediyl), .alphahydro- .omega[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3- propanediol (3:1)	28961-43-5	>= 5 - < 10
Zinc	7440-66-6	>= 5 - < 10
Poly[oxy(methyl-1,2- ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3- propanetriyltris[.omega[(1-oxo-2-propen-1- yl)oxy]-	52408-84-1	>= 1 - < 5
Polyester acrylate	Not Assigned	>= 1 - < 5
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2- propenoate	55818-57-0	>= 0.1 - < 1
2,5-Cyclohexadien-1-one, 2,6-bis(1,1- dimethylethyl)-4-(phenylmethylene)-	7078-98-0	>= 0.1 - < 1
2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2- propen-1-yl)oxy]methyl]-1,3-propanediyl] ester	15625-89-5	>= 0.1 - < 1

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.
lf inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

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In cas	se of skin contact		nediately with soap and plenty of water.
In cas	se of eye contact	If on skin, rins If on clothes,	n persists, call a physician. se well with water. remove clothes. 'lush eye(s) with plenty of water. act lenses.
lf swa	allowed	If eye irritation : Keep respirat Do not give m	e open while rinsing. n persists, consult a specialist. ory tract clear. nilk or alcoholic beverages. nything by mouth to an unconscious person.
	important symptoms offects, both acute and ed	If symptoms : Harmful if swa May cause ar Causes serio	persist, call a physician.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire		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
fighting	•	courses.
Further information	:	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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.
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





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Environmental precautions		:	The product shou	respective authorities. The product should not be allowed to enter drains, water courses or the soil.		
			Prevent further lea	rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ities.		
	ods and materials for inment and cleaning up	:	Use mechanical h	nandling equipment.		
			Do not flush with Contain spillage, absorbent materia vermiculite) and p	fer to properly labeled containers. water. and then collect with non-combustible al, (e.g. sand, earth, diatomaceous earth, place in container for disposal according to gulations (see section 13).		
			acid binder, unive	t absorbent material (e.g. sand, silica gel, rsal binder, sawdust). closed containers for disposal.		

SECTION 7. HANDLING AND STORAGE

:	Keep away from heat and sources of ignition. No smoking.
	Normal measures for preventive fire protection.
:	Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
:	Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct





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	nical sures/Precautions rials to avoid	place. Containers w kept upright t Electrical inst the technolog Protect from Keep away fr strongly acid	er tightly closed in a dry and well-ventilated hich are opened must be carefully resealed and o prevent leakage. allations / working materials must comply with jical safety standards. humidity and water. om oxidizing agents, strongly alkaline and materials in order to avoid exothermic reactions. cogether with oxidizing and self-igniting products.
	er information on ge stability	: No decompo	sition if stored and applied as directed.

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 (Fumes)	0.2 mg/m3 (Copper)	ACGIH
		TWA (Dust)	1 mg/m3 (Copper)	NIOSH REL
		TWA (Mist)	1 mg/m3 (Copper)	NIOSH REL
		TWA (dusts and mists)	1 mg/m3 (Copper)	OSHA Z-1
		TWA (Fumes)	0.1 mg/m3 (Copper)	OSHA Z-1
		TWA	0.1 mg/m3	OSHA P0

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		(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	
			foot	
		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	
2-Propenoic acid, 1,1'-[2-ethyl-	15625-89-5	TWA	1 mg/m3	US WEEL
2-[[(1-oxo-2-propen-1-				
yl)oxy]methyl]-1,3-propanediyl]				
ester				

Personal protective equipment

Respiratory protection : Hand protection Material :		Use suitable breathing protection if workplace concentration requires. Equipment should conform to EN 14387
		Solvent-resistant gloves (butyl-rubber)
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. 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 o	rotection according to the amount and f the dangerous substance at the work place. ial hygiene practice.
, , , ,		When using do When using do	not eat or drink.
ECTION	9. PHYSICAL AND CH	EMICAL PROPERTI	ES
Color Odor Odor pH Meltin	arance Threshold ng point/range g point/boiling range	 liquid gold characteristic No data availal substance/mix Not applicable > 100 °C 	ture is non-soluble (in water)
Flash	point	: >100 °C	
Flamr Uppe	oration rate nability (solid, gas) r explosion limit / Upper nability limit	 No data availal No data availal No data availal 	ble
flamm	r explosion limit / Lower nability limit r pressure	: No data availal	
	ve density	: No data availal : 1.4 g/cm3	ble
Wa Partiti octan Autoi Deco	ility(ies) ater solubility on coefficient: n- ol/water gnition temperature mposition temperature	: insoluble : No data availal : No data availal : No data availal	ble
Visco Vis	sity scosity, kinematic	: < 22 mm2/s (4	0 °C)

SECTION 10. STABILITY AND REACTIVITY

Chemical stability Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Stable under recommended storage conditions. No decomposition if stored and applied as directed.
Conditions to avoid	:	Do not allow evaporation to dryness.





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No data available

Hazardous decomposition products						
Thermal decomposition	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).					

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Harmful if swallowed.		
Components:		
Copper: Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.
Zinc: Acute oral toxicity	:	(Rat): > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Skin corrosion/irritation

Not classified based on available information.

Components:

Copper:

Remarks: May cause skin irritation in susceptible persons.

2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester:

Result: Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Copper: Result: Eye irritation





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Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):

Result: Irritating to eyes.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-: Result: Eye irritation

2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester: Result: Eye irritation

Respiratory or skin sensitization

Skin sensitization May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):

Result: May cause sensitization by skin contact.

Remarks: Causes sensitization. May cause sensitization of susceptible persons by skin contact.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-:

Result: May cause sensitization by skin contact.

Phenol, **4**,**4'-(1-methylethylidene)bis-**, **polymer with 2-(chloromethyl)oxirane**, **2-propenoate:** Result: May cause sensitization by skin contact.

2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-:

Result: May cause sensitization by skin contact.

2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester: Result: May cause sensitization by skin contact.





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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Components:

2-Propenoic acid, 1,1'-[2-eth Carcinogenicity - Assessment	yl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester: : Limited evidence of carcinogenicity in animal studies		
IARC	Group 2B: Possibly carcinogenic to humans		
	2-Propenoic acid, 1,1'-[2- ethyl-2-[[(1-oxo-2-propen-1- yl)oxy]methyl]-1,3- propanediyl] ester		
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:			
toxicity)	10		
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.		
Zinc:			
M-Factor (Acute aquatic toxicity)	1		
	1		
Ecotoxicology Assessment			
Acute aquatic toxicity	Very toxic to aquatic life.		
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.		
Phenol, 4,4'-(1-methylethylide	ne)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate:		
Ecotoxicology Assessment			
Acute aquatic toxicity	Toxic to aquatic life.		
Chronic aquatic toxicity	Toxic to aquatic life with long lasting effects.		
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-:			
Ecotoxicology Assessment			
Chronic aquatic toxicity	May cause long lasting harmful effects to aquatic life.		
2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester:			
Ecotoxicology Assessment			
Acute aquatic toxicity	Very toxic to aquatic life.		
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.		





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Persistence and degradabilit	y	
No data available		
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:		
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.
	i yl)], .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega[(1-
oxo-2-propen-1-yl)oxy]-:		NI 17 911
Additional ecological	:	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

information

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

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Not regulated as a dangerous good

International Regulations

IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Copper metal powder)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Copper metal powder)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may 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)
Copper	7440-50-8	5000
Zinc	7440-66-6	1000
Cyclohexane	110-82-7	1000

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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	:	Acute toxicity (any route of exposure) Respiratory or skin sensitization Serious eye damage or eye irritation Carcinogenicity		
SARA 313	:	: The following components are subject to reporting levels established by SARA Title III, Section 313:		
		Copper	7440-50-8	>= 30 - < 50 %
		Zinc	7440-66-6	>= 5 - < 10 %

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

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

	Cyclohexane	110-82-7	%
The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:			
	Cyclohexane	110-82-7	%
This pro	duct contains the following t	oxic pollutants listed under th	e U.S. Clean Water Act Section 307
	Copper	7440-50-8	31.6703 %
	Zinc	7440-66-6	5.6832 %
This product contains the following priority pollutants related to the U.S. Clean Water Act:			
	Copper	7440-50-8	31.6703 %
	Zinc	7440-66-6	5.6832 %





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US State Regulations

Massachusetts Right To Know					
C	Copper	7440-50-8			
Z	linc	7440-66-6			
Pennsylvar	Pennsylvania Right To Know				
C	Copper	7440-50-8			
	P-Propenoic acid, 1,1'-[2-[[2,2-bis[[(1-oxo-2-propen-1- 'I)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl] ester	94108-97-1			
P P	Poly(oxy-1,2-ethanediyl), .alphahydroomega[(1-oxo-2- propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3- propanediol (3:1)	28961-43-5			
ĸ	Kein gefährlicher Stoff oder gefährliches Gemisch gemäß dem Global Harmonisierten System (GHS).	Not Assigned			
	Zinc	7440-66-6			
	oly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''- ,2,3-propanetriyltris[.omega[(1-oxo-2-propen-1-yl)oxy]-	52408-84-1			
	Numinum	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.



WARNING: This product can expose you to chemicals including 2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Copper 7440-5 Zinc 7440-6	66-6
Copper 7440-5	
California Permissible Exposure Limits for Chemical Contaminants	50-8
Zinc 7440-6	56-6
California List of Hazardous Substances Copper 7440-5	50-8

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The ingredients of this product are reported in the following inventories:			
DSL	: This product contains one or several components that are not on the Canadian DSL nor NDSL.		
TSCA	 All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption. 		
TSCA list			

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: Zinc 7440-66-6

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
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
US WEEL / TWA	:	8-hr TWA
AllC - Australian Inventory	of I	Industrial Chemicals: ASTM - American Society for the Testing

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





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maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory 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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