



Version	Revision Date:	SDS Number:	Date of last issue: 04/24/2023
4.1	02/27/2025	102000026872	Date of first issue: 03/26/2018

SECTION 1. IDENTIFICATION

Product name Product code	:	METALSTAR UV 21-2062 GOLD 046427DP0
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 ac	cordance with the OSHA H	Hazard Communication Standard (29 CFR
1910.1200)		
Aguta taxiaity (Oral)	· Cotogony A	

Acute toxicity (Oral)	: Category 4
Eye irritation	: Category 2A
Skin sensitization	: Category 1
Carcinogenicity	: Category 2
Reproductive toxicity	: Category 1B
GHS label elements Hazard pictograms	
Signal Word	: Danger
Hazard Statements	: H302 Harmful if swallowed.







Version 4.1	Revision Date: 02/27/2025	SDS Number: 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018
		H319 Causes s H351 Suspecte	se an allergic skin reaction. serious eye irritation. ed of causing cancer. amage the unborn child.
Preca	utionary Statements	: _ /	
	,	Prevention:	
		P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
		P261	Avoid breathing mist or vapors.
		P264	Wash skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P272	Contaminated work clothing must not be
		D 000	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 +	
		P308 + P313	IF exposed or concerned: Get medical advice/ 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 approved waste disposal plant.

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)

SAFETY DATA SHEET



METALSTAR UV 21-2062 GOLD

Version	Revision Date:	SDS Number:	Date of last issue: 04/24/2023
4.1	02/27/2025	102000026872	Date of first issue: 03/26/2018

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

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate Polyester acrylate

1-Butanone, 2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-

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)
	94108-97-1	>= 20 - < 30
Copper	7440-50-8	>= 20 - < 30
Zinc	7440-66-6	>= 5 - < 10
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
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
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2- propenoate	55818-57-0	>= 1 - < 5
Polyester acrylate	Not Assigned	>= 1 - < 5
1-Butanone, 2-(dimethylamino)-1-[4-(4- morpholinyl)phenyl]-2-(phenylmethyl)-	119313-12-1	>= 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 Actual concentration is withheld as a trade s	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.

SAFETY DATA SHEET



METALSTAR UV 21-2062 GOLD

Version 4.1	Revision Date: 02/27/2025	SDS Number: 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018
			angerous area. erial safety data sheet to the doctor in
lf inha	aled	advice.	ersist, call a physician.
In case of skin contact		: Wash off imm If skin irritation If on skin, rinse	ediately with soap and plenty of water. persists, call a physician. e well with water. emove clothes.
In case of eye contact		: Immediately fl Remove conta Keep eye wide	ush eye(s) with plenty of water.
If swallowed		Never give any	bry tract clear. Ik or alcoholic beverages. /thing by mouth to an unconscious person. ersist, call a physician.
	important symptoms effects, both acute and red	: Harmful if swa May cause an Causes seriou Suspected of May damage t Harmful if swa May cause an Causes seriou Suspected of	llowed. allergic skin reaction. Is eye irritation. causing cancer. he unborn child.

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. Wear self-contained breathing apparatus for firefighting if necessary.







Version	Revision Date:	SDS Number:	D
4.1	02/27/2025	102000026872	Da

Date of last issue: 04/24/2023 Date of first issue: 03/26/2018

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 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. Do not flush with water. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
		Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. No smoking.
		Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8.







Vers 4.1	ion	Revision Date: 02/27/2025	-	DS Number: 2000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018
				application area. Dispose of rinse v regulations. Persons suscepti allergies, chronic be employed in an used.	and drinking should be prohibited in the water in accordance with local and national ble to skin sensitization problems or asthma, or recurrent respiratory disease should not my process in which this mixture is being
	Conditi	ons for safe storage	:	Do not store near Keep containers to To maintain produ- sunlight. Keep container tig place. Containers which kept upright to pre-	ions / working materials must comply with
	Technic measur	cal res/Precautions	:	Protect from hum	dity and water.
	Materia	lls to avoid	:	strongly acid mate	oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions. ther with oxidizing and self-igniting products.
		information on e stability	:	No decompositio	n 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	1 mg/m3	ACGIH

A member of **C ALTANA**





rsion		DS Number: 02000026872		st issue: 04/24/2023 st issue: 03/26/2018	
1			and mist)	(Copper)	
			TWA (Fumes)	0.2 mg/m3 (Copper)	ACGIH
			TWA (Dust)	1 mg/m3 (Copper)	NIOSH R
			TWA (Mist)	1 mg/m3 (Copper)	NIOSH R
			TWA (dusts and mists)	1 mg/m3 (Copper)	OSHA Z-
			TWA (Fumes)	0.1 mg/m3 (Copper)	OSHA Z-
			TWA (Fumes)	0.1 mg/m3 (Copper)	OSHA PO
			TWA (Dust and mist)	1 mg/m3 (Copper)	OSHA PO
Zinc		7440-66-6	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-:
			TWA (total dust)	15 mg/m3	OSHA Z-
			TWA (respirable fraction)	5 mg/m3	OSHA Z-:
			TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
2-[[(1-	penoic acid, 1,1'-[2-ethyl- oxo-2-propen-1- ']methyl]-1,3-propanediyl]	15625-89-5	TWA	1 mg/m3	US WEEL

Personal protective equipment

Respiratory protection	 Use suitable breathing protection if workplace concentration requires. Equipment should conform to EN 14387
Hand protection	
Material	: 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
	7/00





Version 4.1	Revision Date: 02/27/2025	SDS Number: 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018		
		gloves. Also ta conditions und danger of cuts Recommended washed after of	time which are provided by the supplier of the ake into consideration the specific local ler which the product is used, such as the a, abrasion, and the contact time. d preventive skin protection Skin should be contact. The suitability for a specific workplace cussed with the producers of the protective		
Eye p	protection		Safety glasses Wear face-shield and protective suit for abnormal processing		
Skin a	and body protection	: Choose body	Choose body protection according to the amount and concentration of the dangerous substance at the work place.		
Hygiene measures		: General indust When using do When using do	General industrial hygiene practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.		
SECTION	9. PHYSICAL AND C	HEMICAL PROPERT	TIES		
Appearance Color Odor Odor Threshold		: liquid : gold : characteristic	gold		

Odor		characteristic
Odor Threshold	:	No data available
pH	:	substance/mixture is non-soluble (in water)
•	:	Not applicable
Melting point/ range		
Boiling point/boiling range	:	> 100 °C
Flash point	:	> 100 °C
•		
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper	:	No data available
flammability limit		
Lower explosion limit / Lower	:	No data available
flammability limit		
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.4 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-	:	No data available
octanol/water		
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available







Version Revision Date: SDS Number: 4.1 02/27/2025 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018
--	---

Viscosity

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. 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. No data available			
Hazardous decomposition products					
Thermal decomposition	:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).			

SECTION 11. TOXICOLOGICAL INFORMATION

Acute 1	toxicity
---------	----------

Harmful if swallowed. 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. Not classified due to lack of data.

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:





Version	Revision Date:	SDS Number:
4.1	02/27/2025	102000026872

Date of last issue: 04/24/2023 Date of first issue: 03/26/2018

Result: Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation. Causes serious eye irritation.

Components:

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

Copper: Result: Eye irritation

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

Polyester acrylate:

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.

Skin sensitization May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Respiratory sensitization

Not classified due to lack of data.





Version	Revision Date:	SDS Number:	Dat
4.1	02/27/2025	102000026872	Dat

Date of last issue: 04/24/2023 Date of first issue: 03/26/2018

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.

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.

Polyester acrylate:

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.

Germ cell mutagenicity

Not classified based on available information. Not classified due to lack of data.

Carcinogenicity

Suspected of causing cancer. Suspected of causing cancer.

Components:

2-Propenoic acid, 1,1'-[2-eth) Carcinogenicity - Assessment	yI-2-[[(1-oxo-2-propen-1-yI)oxy] : Limited evidence of carcino	[methyl]-1,3-propanediyl] ester: genicity in animal studies
IARC	Group 2B: Possibly carcinoger	nic to humans
	2-Propenoic acid, 1,1'-[2- ethyl-2-[[(1-oxo-2-propen-1- yl)oxy]methyl]-1,3- propanediyl] ester	15625-89-5





ersion 1	Revision Date: 02/27/2025	SDS Number: 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018		
OSH	A		f this product present at levels greater than or 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.		
May o	oductive toxicity damage the unborn cl damage the unborn cl				
<u>Com</u>	oonents:				
Repro			linyl)phenyl]-2-(phenylmethyl)-: e of adverse effects on development, based on nents.		
Not c	-single exposure lassified based on av lassified due to lack o				
Not c	-repeated exposure assified based on av assified due to lack o	ailable information.			
Not cl	ation toxicity assified based on av assified due to lack o				
Furth	er information				
<u>Com</u>	<u>oonents:</u>				
Copp Rema	er: ırks: No data availabl	e			
Zinc: Rema	ırks: No data availabl	e			





Version	Revision Date:	SDS Number:
4.1	02/27/2025	102000026872

Date of last issue: 04/24/2023 Date of first issue: 03/26/2018

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
2-Propenoic acid, 1,1'-[2-[[2 propanediyl] ester:	, 2- b	is[[(1-oxo-2-propen-1-yl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
Copper:		
M-Factor (Acute aquatic 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
M-Factor (Chronic aquatic toxicity)	:	1
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
Poly(oxy-1,2-ethanediyl), .a 2-(hydroxymethyl)-1,3-propa	-	ahydroomega[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl- diol (3:1):
Ecotoxicology Assessment Chronic aquatic toxicity		Harmful to aquatic life with long lasting effects.
Phenol, 4,4'-(1-methylethylic	dene	e)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.
		13 / 20





Version 4.1	Revision Date: 02/27/2025		DS Number:)2000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018
		ino)	-1-[4-(4-morpholin	yl)phenyl]-2-(phenylmethyl)-:
M-Fa toxic	ictor (Acute aquatic itv)	:	1	
M-Fa	M-Factor (Chronic aquatic toxicity)		1	
Ecot	oxicology Assessment	t		
Acut	e aquatic toxicity	:	Very toxic to aqua	atic life.
Chro	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
2,5-0	Cyclohexadien-1-one,	2,6-b	ois(1,1-dimethyleth	yl)-4-(phenylmethylene)-:
Ecot	oxicology Assessment	t		
Chro	nic aquatic toxicity	:	May cause long la	asting harmful effects to aquatic life.
2-Pro	openoic acid, 1,1'-[2-et	hyl-2	2-[[(1-oxo-2-prope	n-1-yl)oxy]methyl]-1,3-propanediyl]
Ecot	oxicology Assessment	t		
Acut	e aquatic toxicity	:	Very toxic to aqua	atic life.
Chro	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

No data available

Components:

Copper:

Additional ecological	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
monnation		Very toxic to aquatic life with long lasting effects.

Zinc:

Additional ecological	:	An environmental hazard cannot be excluded in the event of
information		unprofessional handling or disposal.
		Very toxic to aquatic life with long lasting effects.



ester:





Version	Revision Date:	SDS Number:	Date of last issue: 04/24/2023
4.1	02/27/2025	102000026872	Date of first issue: 03/26/2018

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

Additional ecological	:	No data available
information		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
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

49 CFR

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	:	а Ш
Labels	:	9
Lancis	· ·	J





Version 4.1	Revision Date: 02/27/2025	SDS Number: 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018	
	e pollutant	: F-A, S-F : yes		
Remarks		packagings cor inner packaging	 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

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 Carcinogenicity Reproductive toxicity Serious eye damage or eye irritation		
SARA 313 :	The following components are subject to reporting levels established by SARA Title III, Section 313:		orting levels
	Copper	7440-50-8	>= 20 - < 30 %
	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).





Version	Revision Date:	SDS Number:	Date of last issue: 04/24/2023
4.1	02/27/2025	102000026872	Date of first issue: 03/26/2018

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 follo 116.4A:	wing Hazardous Substances	s are listed under the U.S. Cle	anWater Act, Section 311, Table			
	Cyclohexane	110-82-7	%			
The follo 117.3:	wing Hazardous Chemicals	are listed under the U.S. Clea	nWater Act, Section 311, Table			
	Cyclohexane	110-82-7	%			
This prod	luct contains the following to Copper	oxic pollutants listed under the 7440-50-8	U.S. Clean Water Act Section 307 27.71 %			
	Zinc	7440-66-6	9.676 %			
This prod	luct contains the following p Copper	riority pollutants related to the 7440-50-8	U.S. Clean Water Act: 27.71 %			
	Zinc	7440-66-6	9.676 %			
US State	US State Regulations					
Massach	Massachusetts Right To Know					
	Connor					
	Copper		7440-50-8			
	Zinc		7440-50-8 7440-66-6			
Pennsylv	Zinc					
Pennsylv	Zinc vania Right To Know 2-Propenoic acid, 1,1'-[2-[]	[2,2-bis[[(1-oxo-2-propen-1- iyl]-2-ethyl-1,3-propanediyl] es	7440-66-6 94108-97-1			
Pennsylv	Zinc vania Right To Know 2-Propenoic acid, 1,1'-[2-[]		7440-66-6 94108-97-1			
Pennsylv	Zinc vania Right To Know 2-Propenoic acid, 1,1'-[2-[[yl)oxy]methyl]butoxy]meth		7440-66-6 94108-97-1 ster			
Pennsylv	Zinc vania Right To Know 2-Propenoic acid, 1,1'-[2-[[yl)oxy]methyl]butoxy]meth Copper Zinc Poly(oxy-1,2-ethanediyl), . propen-1-yl)oxy]-, ether wir propanediol (3:1)	alphahydroomega[(1-oxo th 2-ethyl-2-(hydroxymethyl)-1	7440-66-6 94108-97-1 7440-50-8 7440-66-6 -2- ,3-			
Pennsylv	Zinc Pania Right To Know 2-Propenoic acid, 1,1'-[2-[[yl)oxy]methyl]butoxy]meth Copper Zinc Poly(oxy-1,2-ethanediyl), . propen-1-yl)oxy]-, ether wi propanediol (3:1) Kein gefährlicher Stoff ode Global Harmonisierten Sys	alphahydroomega[(1-oxo th 2-ethyl-2-(hydroxymethyl)-1 er gefährliches Gemisch gemä	7440-66-6 94108-97-1 7440-50-8 7440-66-6 -2- ,3- 8 dem Not Assigned			





Version	Revision Date:	SDS Number:	Date of last issue: 04/24/2023
4.1	02/27/2025	102000026872	Date of first issue: 03/26/2018

Ethanone, 2,2-dimethoxy-1,2-diphenyl-

24650-42-8

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.



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, Ethanol, which is/are known to the State of California to cause cancer, and Ethanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

The ingredients	of this product are reported in the following inventories:
	This was due to a stains and an activate los and an

DSL	:	This product contains one or several components that are not
		on the Canadian DSL nor NDSL.
TSCA	:	All substances listed as active on the TSCA inventory

```
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



Version 4.1	Revision Date: 02/27/2025	SDS Number: 102000026872	Date of last issue: 04/24/2023 Date of first issue: 03/26/2018		
ACGI	4	: USA. ACG	IH Threshold Limit Values (TLV)		
NIOSI	H REL		: USA. NIOSH Recommended Exposure Limits		
OSHA	N P0		USA. Table Z-1-A Limits for Air Contaminants (1989 vacated		
OSHA	x Z-1	: USA. Óccu	values) : 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 W	EEL	: USA. Work	: USA. Workplace Environmental Exposure Levels (WEEL)		
ACGI	ACGIH / TWA		: 8-hour, time-weighted average		
NIOSI	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	OSHA Z-1 / TWA		8-hour time weighted average		
OSHA	OSHA Z-3 / TWA		8-hour time weighted average		
	US WEEL / TWA				
			emicals; ASTM - American Society for the Testing of		
			mprehensive Environmental Response, Compensation,		
			gen or Reproductive Toxicant; DIN - Standard of the		
			Γ - Department of Transportation; DSL - Domestic		
			Cx - Concentration associated with x% response; EHS - Extremely		
			sociated with x% response; EmS - Emergency Schedule;		
			nces (Japan); $ErCx$ - Concentration associated with x%		
			ponse Guide; GHS - Globally Harmonized System; GLP		

х% 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 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





Version	Revision Date:	SDS Number:	Date of last issue: 04/24/2023
4.1	02/27/2025	102000026872	Date of first issue: 03/26/2018

Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 02/27/2025

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.

US / Z8