



Version	Revision Date:	SDS Number:	Date of last issue: 09/19/2024
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SECTION 1. IDENTIFICATION

Product name Product code		ROTOSTAR AQUA FP 09-90455 875 GOLD 047480CT0		
Manufacturer or supplier's details				
		ECKART America Corporation 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 acco 1910.1200)	rdar	nce 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
		4 / 4	0





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		P280	product. Wear eye protection/ face protection.
		Response:	
		P301 + P312 + F	P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
		P305 + P351 + F	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313	If eye irritation persists: Get medical advice/ 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	>= 30 - < 50
1,2-Propanediol	57-55-6	>= 5 - < 10
Zinc	7440-66-6	>= 1 - < 5
Ethanol, 2-(dimethylamino)-	108-01-0	>= 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. Do not leave the victim unattended.
If inhaled	 Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.



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	case of skin contact case of eye contact	 Wash off immediately with soap and plenty of water. Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. 				
If swallowed		 If eye irritation persists, consult a specialist. Induce vomiting immediately and call a physician. 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 swallow Causes serious ey	ed.			
SECTIO	SECTION 5. FIRE-FIGHTING MEASURES					
Su	uitable extinguishing media	: Special powder ag Dry sand ABC powder	ainst metal fire			
Unsuitable extinguishing media		Water High volume water jet Carbon dioxide (CO2)				
	becific hazards during fire hting		f from fire fighting to enter drains or water			
	urther information	Collect contaminat must not be discha Fire residues and be disposed of in a Use extinguishing circumstances and	e for chemical fires. ed fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. measures that are appropriate to local the surrounding environment. d breathing apparatus for firefighting if			
	r fire-fighters	necessary.	· · · · · · · · · · · · · · · · · · ·			
SECTIO	ON 6. ACCIDENTAL RELE	ASE MEASURES				
	ersonal precautions, otective equipment and	: Evacuate personn Ensure adequate	rentilation.			

emergency procedures	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.
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E	Environ	mental precautions	:	The product shou courses or the so	ld not be allowed to enter drains, water I.
				Prevent further lea	rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ties.
		s and materials for ment and cleaning up	:	Use mechanical h	andling equipment.
				Do not flush with Contain spillage, a absorbent materia vermiculite) and p	fer to properly labeled containers. water. and then collect with non-combustible al, (e.g. sand, earth, diatomaceous earth, lace 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

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 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.
Conditions for safe storage	:	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 sunlight. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with

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	nical sures/Precautions rials to avoid	: Protect from : Keep away f strongly acid	gical safety standards. humidity and water. from oxidizing agents, strongly alkaline and materials in order to avoid exothermic reactions. together with oxidizing and self-igniting products.
	er information on ge stability	: No decompo	osition 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 (Fumes)	0.1 mg/m3 (Copper)	OSHA P0
		TWA (Dust and mist)	1 mg/m3 (Copper)	OSHA P0
1,2-Propanediol	57-55-6	TWA	10 mg/m3	US WEEL

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Zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3

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 Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	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.





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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold pH		liquid No data available characteristic No data available 6 - 8 Concentration: 100 %
Melting point/freezing point Boiling point/boiling range	:	No data available > 100 °C
Flash point	:	> 100 °C
Evaporation rate Flammability (solid, gas) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapor pressure Relative density Density		No data available No data available No data available No data available No data available No data available 1.5 - 1.6 g/cm3
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature Decomposition temperature Viscosity Total Volatile organic compounds (VOC) content	: : : : : : : : : : : : : : : : : : : :	insoluble No data available No data available No data available No data available 5.00 - 10.00 %

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 pr Thermal decomposition	oducts : Carbon monoxide, carbon dioxide and unburned







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			hydrocarbons	(smoke).
SECTION	11. TOXICOLOGICA	L INF	ORMATION	
	e toxicity Iful if swallowed.			
<u>Com</u>	ponents:			
Сорр	per:			
Acute	e oral toxicity	:	Assessment: T single ingestion	he component/mixture is moderately toxic after າ.
1,2-P	Propanediol:			
Acute	e oral toxicity	:	LD50 (Rat): > 2	22,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Zinc	:			
Acute	e oral toxicity	:	(Rat): > 2,000	mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 5.4 Exposure time	: 4 h

Ethanol, 2-(dimethylamino)-:

Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	:	Assessment: The component/mixture is toxic after short term inhalation.
Acute dermal toxicity	:	Assessment: The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation

Not classified based on available information.

Components:

Copper:

Remarks: May cause skin irritation in susceptible persons.





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1,2-Propanediol:

Result: No skin irritation

Ethanol, 2-(dimethylamino)-:

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Copper: Result: Eye irritation

1,2-Propanediol:

Result: No eye irritation

Ethanol, 2-(dimethylamino)-:

Result: No eye irritation

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.





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Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

Components:

Ethanol, 2-(dimethylamino)-:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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

SECTION 12. ECOLOGICAL INFORMATION

EcotoxicityComponents:Copper:M-Factor (Acute aquatic:M-Factor (Chronic aquatic:M-Factor (Chronic aquatic:toxicity)M-Factor (Chronic aquatic:Acute aquatic toxicity:Koute aqua





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Toxic	ropanediol: ity to daphnia and other tic invertebrates	: (Daphnia magn	a (Water flea)): > 10,000 mg/l
toxici	ctor (Acute aquatic ty) ctor (Chronic aquatic	: 1 : 1	
Acute	e aquatic toxicity	: Very toxic to aqu : Very toxic to aqu	uatic life. uatic life with long lasting effects.
	stence and degradabil i ata available	ty	
	ccumulative potential ata available		
	r adverse effects ata available		
Com	ponents:		
	per: ional ecological nation	unprofessional h	al hazard cannot be excluded in the event of andling or disposal. Jatic life with long lasting effects.
Addit	ropanediol: ional ecological nation	: No data availabl	e
	ional ecological nation	unprofessional h	al hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	The product should not be allowed to enter drains, water
		courses or the soil.





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	aminated packaging	chemical or us Send to a licer Empty remain Dispose of as Do not re-use	nsed waste management company.
	14. TRANSPORT INF	DRMATION	
49 CF	-	s good	
	national Regulations	s good	
UN/IE Prope Packi Label Packi aircra Packi (pass	er shipping name ng group s ng instruction (cargo	(Copper meta : 9 : III	lly hazardous substance, liquid, n.o.s. al powder) s Dangerous Goods
UN n	umber er shipping name	: UN 3082 : ENVIRONME N.O.S. (Copper meta	NTALLY HAZARDOUS SUBSTANCE, LIQUID,
Label EmS	ng group s	: 9 : III : 9 : F-A, S-F : yes	. ,
Rema	arks	packagings co inner packagir	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.





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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
Sodium hydroxide (Na(OH))	1310-73-2	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) Serious eye damage or eye irritation The following components are subject to reporting levels established by SARA Title III, Section 313: 		
SARA 313	:			orting levels
		Copper	7440-50-8	>= 30 - < 50 %
		Zinc	7440-66-6	>= 1 - < 5 %

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

1,2-Propanediol	57-55-6	>= 5 - < 10 %
Ethanol, 2-(dimethylamino)-	108-01-0	>= 0.1 - < 1 %

Clean Water Act

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



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The	Sodium hydroxide (Na(OH))	1310-73-2	%
117.	3: Sodium hydroxide (Na(OH))	1310-73-2	r the U.S. CleanWater Act, Section 311, Table %
This	Copper	7440-50-8	isted under the U.S. Clean Water Act Section 307 35.38 %
	Zinc	7440-66-6	3.6 %
This	product contains the follo Copper	wing priority pollutant 7440-50-8	s related to the U.S. Clean Water Act: 35.38 %
	Zinc	7440-66-6	3.6 %
USS	State Regulations		
Mas	sachusetts Right To Kn	ow	
	Copper		7440-50-8
	Zinc		7440-66-6
Pen	nsylvania Right To Kno	w	
	Copper		7440-50-8
	Water		7732-18-5
	Kein gefährlicher S	toff laut GHS.	Not Assigned
	1,2-Propanediol		57-55-6
	Dextrin		9004-53-9
	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





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	Zinc		7440-66-6
Califo	ornia Permissible Ex	posure Limits for Che	emical Contaminants
	Copper		7440-50-8
	Zinc		7440-66-6
The i	naredients of this pr	oduct are reported in	the following inventories:
DSL		: This product co on the Canadia	ontains one or several components that are not in DSL nor NDSL., This product contains one ponents listed in the Canadian NDSL.
TSCA	A		as substance(s) not listed on TSCA inventory.
TSCA	A list		
No su	ibstances are subject	to a Significant New Us	se Rule.
The fo Zinc	ollowing substance(s)	is/are subject to TSCA	12(b) export notification requirements: 7440-66-6

Full text of other abbreviations

	113				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits			
OSHA P0	:	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			
AIIC - 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					
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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 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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