



Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2024
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SECTION 1. IDENTIFICATION

Product name Product code	ROTOSTAR AQUA FP 09-90454 874 GOLD 047479CT0				
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	ice 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 se	swallowed. erious eye irritation.
Precautionary Statements	:	Prevention:	
		P264	Wash skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this
		4 / 4 /	6







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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
Zinc	7440-66-6	>= 5 - < 10
1,2-Propanediol	57-55-6	>= 5 - < 10
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.



SAFETY DATA SHEET



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	se of skin contact se of eye contact	: Immediately flus Remove contact	liately with soap and plenty of water. h eye(s) with plenty of water. elenses. 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. 				
	important symptoms effects, both acute and red	If symptoms per : Harmful if swallo Causes serious				
SECTION 5. FIRE-FIGHTING MEASURES						
Suita	ble extinguishing media	: Special powder Dry sand ABC powder	against metal fire			
Unsu media	itable extinguishing a	: Water High volume wa Carbon dioxide				
Spec fightir	ific hazards during fire ng		-off from fire fighting to enter drains or water			
	er information	Collect contamir must not be disc Fire residues an be disposed of in Use extinguishin circumstances a	dure for chemical fires. hated fire extinguishing water separately. This charged into drains. d contaminated fire extinguishing water must n accordance with local regulations. hg measures that are appropriate to local and the surrounding environment.			
	ial protective equipment e-fighters	: Wear self-contain necessary.	ned breathing apparatus for firefighting if			
SECTION	6. ACCIDENTAL RELE	ASE MEASURES				
	onal precautions,	: Evacuate persor	nnel to safe areas.			

protective equipment and emergency procedures		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.



SAFETY DATA SHEET



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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 v 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	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
Zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic	OSHA Z-3





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	1	1	foot	
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWÁ (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
1,2-Propanediol	57-55-6	TWA	10 mg/m3	US WEEL
Personal protective equipmer	nt	I		
Respiratory protection	requires. Equipment s	breathing prote hould conform t stant gloves (but		centration
Remarks	concerning p special work contact). The the protective Please obse breakthrough gloves. Also conditions un danger of cu Recommend washed after	ermeability and place conditions e exact break the e glove produce rve the instruction time which are take into conside order which the p ts, abrasion, and ed preventive s	given by the producer break through times, a (mechanical strain, du rough time can be obta r and this has to be ob provided by the suppl eration the specific loc product is used, such a d the contact time. kin protection Skin sho uitability for a specific v e producers of the prot	and of uration of ained from oserved. bility and lier of the cal us the buld be workplace
Eye protection		safety goggles	tive suit for abnormal p	processing
Skin and body protection	Impervious of Choose body concentratio General indu When using When using	/ protection acco n of the dangero Istrial hygiene p do not eat or dri do not smoke.		ork place.





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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 products Thermal decomposition : Carbon monoxide, carbon dioxide and unburned					







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		hy	ydrocarbons	(smoke).
ECTION	11. TOXICOLOGICA		IATION	
	e toxicity ful if swallowed.			
<u>Comp</u>	oonents:			
Сорр	er:			
Acute	oral toxicity		sessment: T Igle ingestion	he component/mixture is moderately toxic aften n.
Zinc:				
Acute	oral toxicity	: (R	Rat): > 2,000	mg/kg
Acute	inhalation toxicity	Ex	50 (Rat): 5.4 posure time st atmosphe	
1,2-P	ropanediol:			
	oral toxicity	: LD	950 (Rat): > 2	22,000 mg/kg
Acute	e dermal toxicity	: LD	950 (Rabbit):	> 2,000 mg/kg
Ethar	nol, 2-(dimethylamin	o)-:		
	oral toxicity	: As	sessment: T Igle ingestio	he component/mixture is moderately toxic aft n.
Acute	inhalation toxicity		sessment: T nalation.	he component/mixture is toxic after short tern
Acute	e dermal toxicity		sessment: T	he component/mixture is moderately toxic aft with skin

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 aquatictoxicity)M-Factor (Chronic aquatic toxicity)toxicitytoxi





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Zinc: M-Fa	: ictor (Acute aquatic	:	1	
toxici M-Fa toxici	ictor (Chronic aquatic	:	1	
Ecot	oxicology Assessment			
Acute	e aquatic toxicity	:	Very toxic to aqu	atic life.
Chro	nic aquatic toxicity	:	Very toxic to aqu	atic life with long lasting effects.
•	Propanediol:			
	tity to daphnia and other tic invertebrates	:	(Daphnia magna	a (Water flea)): > 10,000 mg/l
	istence and degradabili ata available	ity		
	ccumulative potential ata available			
	r adverse effects ata available			
<u>Com</u>	ponents:			
Сорр	per:			
	ional ecological nation	:	unprofessional h	al hazard cannot be excluded in the event o andling or disposal. latic life with long lasting effects.
Zinc	:			
	ional ecological nation	:	unprofessional h	al hazard cannot be excluded in the event o andling or disposal. latic life with long lasting effects.
1,2-F	Propanediol:			
	ional ecological nation	:	No data available	e
ECTION	13. DISPOSAL CONSI	DEF	ATIONS	
Disp	osal methods			
W/oot	a from reaiduas		The product cha	uld not be allowed to optar draine, water







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	aminated packaging	chemical or u Send to a lice : Empty remair Dispose of as Do not re-use	ninate ponds, waterways or ditches with sed container. ensed waste management company. hing contents. a unused product. e empty containers.
	14. TRANSPORT INF	ORMATION	
49 CF	estic regulation FR		
Not re	egulated as a dangerou	s good	
Interr	national Regulations		
UN/IE Prope Class	er shipping name ng group	(Copper meta : 9 : III	ally hazardous substance, liquid, n.o.s. al powder) s Dangerous Goods
Packi aircra Packi	ng instruction (cargo	: 964 : 964	
UN ni	6-Code 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 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 nay 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	5		
	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).

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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	Sodium hydroxide (Na(OH))	1310-73-2	%
The f 117.3		micals are listed und	er the U.S. CleanWater Act, Section 311, Table
117.0	, Sodium hydroxide (Na(OH))	1310-73-2	%
This		owing toxic pollutants 7440-50-8	listed under the U.S. Clean Water Act Section 30 31.89 %
	Zinc	7440-66-6	7.16 %
This	product contains the follo Copper	owing priority pollutar 7440-50-8	nts related to the U.S. Clean Water Act: 31.89 %
	Zinc	7440-66-6	7.16 %
US S	tate Regulations		
Mass	achusetts Right To Kn	ow	
	Copper		7440-50-8
	Zinc		7440-66-6
Penn	sylvania Right To Kno	w	
	Copper		7440-50-8
	Water		7732-18-5
	Kein gefährlicher S	toff laut GHS.	Not Assigned
	Zinc		7440-66-6
	1,2-Propanediol		57-55-6
	Dextrin		9004-53-9
			Not Assigned
	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.





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Califo	ornia List of Hazardo	ous Substances	
	Copper		7440-50-8
	Zinc		7440-66-6
Califo	ornia Permissible Ex	posure Limits for Ch	emical Contaminants
	Copper		7440-50-8
	Zinc		7440-66-6
The i	ngredients of this p	roduct are reported in	the following inventories:
DSL		: This product contains one or several components that are not on the Canadian DSL nor NDSL.	
TSCA	A	: 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	A list		
Nosi	ubstances are subject	to a Significant New II	so Pulo

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	



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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 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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