

MATERIAL SAFETY DATA SHEET

SDS

iONRx Free Copper Ion Solution



MSDS Ref. No.: EWSAC03200

Date Issued: 07/30/2017

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Revision No.: 1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: iONRx Treatment

GENERAL USE: Swimming Pool, Hot Tub, Spa, and Jacuzzi treatment

MANUFACTURER

Environmental Water Solutions Inc.
EWS
9545 Midwest Ave
Cleveland, Ohio 44125

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800 - 5553

EWS

: (877) 591 - 5930

COMMENTS: EPA Registration Number: Approved but not issued as of 10.30.2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

Copper as ionic	Active	0.05000%
Inert ingredients		<u>99.05%</u>
	TOTAL	100.00%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear blue liquid

IMMEDIATE CONCERNS: AquaCop Toxicity

Category IV – Practically non-toxic
No Signal word required

POTENTIAL HEALTH EFFECTS

EYES: Product is non-irritating to eyes. However, as part of a good work and personal hygiene practices, avoid contact with eyes.

SKIN: Product is non-irritating to skin. However, as part of a good work and personal hygiene practices, avoid contact with skin.

INGESTION: Product should have no ingestion affects. However, as part of a good work and personal hygiene practices, avoid ingestion at all times.

INHALATION: Product is not irritating to nose and throat.

CHRONIC: There are no known chronic hazards.

ROUTES OF ENTRY: Eye Contact and Ingestion

4. FIRST AID MEASURES

Eyes: If in eyes: product should not cause any irritation. Hold eye open and rinse slowly and gently with water for 3 – 5 minutes. Remove contact lenses, if present, after 5 minutes then continue rinsing eye.

Skin: If on skin or clothing: product should not cause any irritation. If irritation develops rinse affected area with fresh water for 5 minutes.

Ingestion: Product has shown to be non-toxic in case of ingestion. Have person drink plenty of water if possible. Contact poison control or a doctor if person does not feel well for advice.

Inhalation: Product has shown to have no toxicity if inhaled. If person does not feel well, move person to fresh air, and call a doctor for advice.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

GENERAL HAZARD: Not Applicable

EXTINGUISHING MEDIA: Not Applicable – product is not flammable

FIRE FIGHTING PROCEDURES: Not Applicable - product has no toxicity.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Containment of spilled material is recommended. You may cover the liquid with an inert absorbent, optional. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic container for disposal. Dispose of according to local, municipal, state, provincial, and federal regulations. Material may also be rinsed with plenty of fresh water and vacuumed up with appropriate equipment for disposal. Dispose of material according to local, municipal, state, provincial, and federal regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Person should avoid contact with eyes, skin or clothing. Person should also avoid breathing vapors or ingestion.

HANDLING: Do not mix with other chemicals.

STORAGE: Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		<u>EXPOSURE LIMITS</u>					
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
		<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>
Copper (ionic)	TWA		[1]				

OSHA TABLE COMMENTS:

1. N/A = NOT APPLICABLE

ENGINEERING CONTROLS: General room ventilation plus local exhaust may be used to minimize exposure to vapors.

(Section 8 continued)

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: It is suggested to wear goggles or safety glasses with side shields when handling this product.

SKIN: With repeated or prolonged use, wear gloves.

RESPIRATORY: None required for normal use.

WORK HYGIENIC PRACTICES: It is recommended to remove and wash contaminated clothing before reuse.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
ODOR:	NONE
COLOR:	Blue
pH:	6.8 – 7.4
VAPOR PRESSURE:	Not Established
VAPOR DENSITY:	Not Established
BOILING POINT:	Not Established
FREEZING POINT:	Not Established
SOLUBILITY IN WATER:	Miscible in Water
DENSITY:	0.0014 lbs/gal (elemental copper) 0.00002 lbs/gal (elemental silver)
SPECIFIC GRAVITY:	Not Established
VISCOSITY:	Not Established

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperature. Poor ventilation. Contamination.

STABILITY: This product is stable under normal conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Potential vapors/fumes of organic/inorganic materials; oxides of carbon; copper oxide; sulfur.

INCOMPATIBLE MATERIALS: Other swimming pool/spa chemicals in their concentrated raw forms should be avoided.

11. TOXICOLOGICAL INFORMATION

AquaCop has received CATEGORY IV clearance for toxicology

ACUTE:

ORAL: This product has NO oral toxicity (rats)

DERMAL: This product has NO dermal toxicity (guinea pigs)

EYE EFFECTS: No positive effects after treatment (rabbits)

SKIN EFFECTS: Non-irritant (guinea pigs)

SENSITIZATION: This product is not a skin sensitizer.

INHALATION: This product has NO inhalation effects

(Section 11 continued)

CARCINOGENICITY:

This product is not listed as a carcinogen by IARC
This product is not listed as a carcinogen by NTP
This product is not listed as a carcinogen by OSHA

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of material according local, state, federal, provincial regulations.
EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not applicable, product is not hazardous or corrosive properties.
PRIMARY HAZARD CLASS/DIVISION: Not applicable, product is not hazardous or corrosive properties.
UN/NA NUMBER: Not applicable
PACKING GROUP: Not applicable
OTHER SHIPPING INFORMATION: Not applicable

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Not applicable, product is not hazardous or corrosive properties.
PRIMARY HAZARD CLASS/DIVISION: Not applicable, product is not hazardous or corrosive properties.
UN/NA NUMBER: Not applicable
PACKING GROUP: Not applicable
OTHER SHIPPING INFORMATION: Not applicable

AIR (ICAO/IATA)

NOTE: No restrictions. Product is not hazardous or corrosive.

COMMENTS: N/A

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
– Not applicable. Product is not hazardous or corrosive.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
– Not applicable. Product is not hazardous or corrosive.

TSCA (TOXIC SUBSTANCE CONTROL ACT)
– Not applicable. Product is not hazardous or corrosive. Product is NON-TOXIC.

OSHA HAZARD COMM. RULE: Product is NON-Hazardous by definition of the Hazardous Communication Standard.

FIFRA (Federal Insecticide, Fungicide, and rodenticide Act): This product is approved but has not received number yet

16. OTHER INFORMATION

PREPARED BY: EWS

HMIS RATING

HEALTH: 0

FLAMMABILITY 0

PHYSICAL HAZARD 0

PERSONAL PROTECTION B

NFPA RATING

HEALTH: 0

FIRE 0

REACTIVITY 0

KEY

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

COMMENTS: The contents and format of this MSDS are in accordance with OSHA Hazardous Communication Standard, National Fire Protection Association (NFPA), and Hazardous Materials Identification System (HMIS).

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