

## Section 1: Product Information

## **POLYDEX - MATERIAL SAFETY DATA SHEET**

Product name: POLYDEX Bacteriostatic Algaecide

**Supplier/manufacturer:** OCION Water Sciences Inc.

Unit 109 - 19347,

Surrey, BC, V3Z 3S9, Canada (604) 270.2639 Fax: (604) 270.2689

**Emergency phone number:** 24hr Emergency: US & Canada 1-800-535-5053 INFOTRAC International 1-352-323-3500

Product use: Bacteriostatic Algaecide

Section 2: Hazard Identification

**Potential Health Effects** 

Phone number:

Emergency Overview Caution-Poison. Keep out of reach of children. Avoid contact with skin, eyes and clothing. Avoid

breathing spray mist or vapors. Causes irritation to eyes. May cause skin irritation. Harmful if swallowed or inhaled. Unless diluted to the correct concentration, this product is toxic to fish,

aquatic invertebrates and some aquatic plants. Eyes: This product may cause eye irritation.

(see toxicological information) Skin: Prolonged or repeated exposure may cause skin irritation.

Ingestion: Swallowing this product may cause copper toxicity or sulfur allergies.

Inhalation: Excessive exposure may cause irritation and/or allergies in the respiratory tract.

Section 3: Composition/Information on Ingredients

Hazardous components 5.0-5.2% Water soluble ionic copper from NSF 60 potable grade copper sulfate (CAS# 7758-

99-8) (CAS# 7758-99-8, EINECS # 231-847-6). 94.8-95 % inert ingredients including OCION's AIM technology (buffering agents, stabilizers, and dispersing agents, 3.1% sulfuric

acid.)

**Section 4: First-Aid Measures** 

**Eye:** Flush immediately with water for 15 minutes

Skin: Wash with soap and water, remove and wash contaminated clothing

**Inhalation:** Provide fresh air. Consult doctor if unwell.

**Ingestion:** Treat as sulfur base.

Section 5: Fire and Explosion Hazard Data

Flammability: Yes/No No

Condition of flammability:

Flash point (C/F) = method:

Upper flammable limit (% by volume):

Lower flammable limit (% by volume):

Auto-ignition temperature:

Extinguishing media:

Not applicable

Not applicable

Not applicable

Dry chemical: N/A Dioxide: N/A Other: N/A

**Hazardous combustion products:**Explosion data:
Not applicable
Not applicable

Sensitivity to impact or static discharge None

Section 6: Accidental Release Measures

Steps to be taken in the event of spill or Notify applicable Government Authority if spill is significant.

release: Contain spill. Prevent entry into water intakes, sewers and waterways. Avoid vapor

created by heat.

Flush with water into retaining area or container and dilute with water. Neutralize

with sodium bicarbonate or lime.

Section 7: Handling and Storage

Special protection information:Provide adequate ventilationRespiratory protection:Provide adequate ventilationProtective clothing:Wear chemical resistant glovesEye protection:Wear chemical resistant goggles

Other protective equipment: Use protective clothing

Handling procedure & storage Avoid storing in excessive heat; expansion of container may occur creating spillage.

requirements: Do not freeze

Section 8: Special Handling and Storage Requirements

**Precautions-Handling/Storing:** Store in covered area. Do not allow the product to freeze. Protect containment from

physical damage. Store in well ventilated area. Use protective clothes, goggles and

nitrile gloves. Wash hands after working with product.



Section 9: Physical and Chemical Properties	POLYDEX

<b>Section 9: Physical and Chemical Properties</b>	POLYDEX
Appearance: (Physical state, & color)	Clear, blue liquid
Odor:	Odorless
Odor threshold concentration: (ppm)	Not applicable
Density/specific gravity: (H <sub>2</sub> O = 1)	1.19
Vapor pressure at 20° C: (mmHg)	0.1
Vapor density: (Air = 1)	1
Evaporation rate:	N/A
Boiling point: (C/F)	104°C
Freezing point: (C/F)	0°C
pH:	0.7 (buffered)
Coefficient of water/oil distribution:	N/A
Section 10: Reactivity Data	(V/)
Chemical stability: (Yes/No)	Yes
Conditions of stability:	A very stable compound
Conditions of product reactivity:	Chelates Iron, Zinc, Magnesium, Manganese, Copper, and other metals
Incompatibility (materials to avoid)	Avoid mixing with strong bases
Hazardous decomposition products:	Sulfuric fumes may be generated by thermal decomposition
Section 11: Toxicological Information in conc	
Acute Toxicity:	LD 50 (Oral, Rat) Category III - 1.57 g/kg
Addie I Oxidity.	LD 50 (Oral, Rat) Category III - 1.57 g/kg LD 50 (Dermal, Rat) Category III - 2.0 g/kg
Vapor Inhalation	Irritation of mucous membranes, coughing, difficulty breathing
Skin Contact	Irritation of mucous membranes, cougning, difficulty breatning Irritation, redness, lesions with extended exposure
Eye Contact	Inflammation of mucous membranes
Ingestion	Gastric pain, vomiting, diarrhea, drop in blood pressure, collapse, acidosis, after
Section 12: Ecological Information	a latency period; death
Biological Degradation	Methods for determination not applicable to inorganic substances
Toxicity for Aquatic Organisms	
	High toxicity to many aquatic organisms
Fish Toxicity	Salmon LC 50: 0.025 – 0.20 mg per litre/96 hours
Daphnia Toxicity	Daphnia sp. LC 50: 0.08 mg per litre/96 hours
Algal Toxicity:	Sc. basilensis inhibitory concentration 0.20 mg per litre
Fungicidal effect	Strong fungicide
Section 13: Disposal Considerations Use for approved uses	Do not allow to enterwester westewater or call except as allowed by local and
Use for approved uses	Do not allow to enter water, wastewater or soil except as allowed by local and
Llos as fartilizar ar in argania wasta	national regulations.
Use as fertilizer or in organic waste	May be neutralized with sodium bicarbonate or lime
Section 14: Transportation	offication Discours 0004
Transportation of Dangerous Good Act Clas	
Packing Group:	III
Product Shipping Name	UN 3264, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric acid, cupric
Class	sulfate) Class 8, PG III, Marine Pollutant
Class	8 Voc
Marine Pollutant	Yes
Section 15: Regulatory Information	In order to comply with NOT Oten dead CO to a distribution was to a confication
Maximum Use Level	In order to comply with NSF Standard 60 for drinking water applications, use a
	maximum of 19 mg of <i>POLYDEX</i> per litre of receiving water. Maximum use level
	for drinking water applications to comply with Health Canada PCP registration is
0	1 part per million of total copper.
Section 16: Other Information	For algae control apply 1:600,000 to 1:60,000 depending on local conditions.
	See label for directions. For assistance call your distributor or OCION Water
	Sciences Ph.: 604 270 2639 email: info@ocion.com
	D. I. I. C. A. I. COAT
Publishing date: September 2015	
END OF MSDS	
	~ 30 ~

~ 30 ~

THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS THE INFORMATION REQUIRED BY THE CPR AS OF THIS DATE. THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL. SELLER MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.