

# MicroC® 4100

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MicroC® 4100      **Publication Date:** January 15, 2021  
**Product Code:** NA      **Replaces:** March 11, 2019  
**Product Use:** A reducing agent for biological processes

Supplier Information:

Environmental Operating Solutions, Inc	Phone:	508-743-8440
53 Portside Drive	Fax:	844-308-5537
Pocasset, MA 02559	Website:	www.microc.com

**EMERGENCY TELEPHONE NUMBER:**      **CHEMTREC**      **800-424-9300**

USE OF THIS PRODUCT FOR WATER TREATMENT IS PROTECTED BY UNITED STATES PATENT #7,144,509/ CANADIAN PATENT #2,476,025

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status:** This product is not hazardous according to 29 CFR 1910.1200  
**GHS Regulatory Status:** This product is not hazardous according to GHS categories

<b>GHS Pictograms:</b>	None Applicable
<b>Signal Word:</b>	None Applicable
<b>GHS Hazard Classification:</b>	None Applicable
<b>Hazard Statements:</b>	None Applicable

Potential Health Effects

Routes of Exposure	Ingestion, inhalation, skin contact, eye contact
Eyes	May cause minor irritation
Skin	May cause minor irritation
Inhalation	None known
Ingestion	May be harmful if swallowed in large quantities

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	% by Weight
Trade Secret components*	n/a	40-60%
Water	7732-18-5	40-60%

\* The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret according to OSHA 1910.1200 Appendix E.

# Safety Data Sheet

## 4. FIRST AID MEASURES

<b>Eye Contact</b>	Immediately flush eyes thoroughly with plenty of water for 15 minutes while holding eyelids apart.
<b>Skin Contact</b>	Remove contaminated clothing and wash affected area with water and soap.
<b>Inhalation</b>	Remove individual to fresh air.
<b>Ingestion</b>	Immediately drink water to dilute. Never give anything to an unconscious person. Seek medical attention.
<b>General Advice</b>	If individual feels unwell following the exposure to the product consult a physician immediately. Present this Safety Data Sheet to the doctor in attendance.
<b>Note to physician</b>	Treat patient symptomatically

## 5. FIRE FIGHTING MEASURES

<b>Flammability Summary (OSHA and NFPA)</b>	Non-flammable Material
<b>Protection of Firefighters:</b>	Wear suitable protective equipment. Wear self contained breathing apparatus if necessary
<b>Extinguishing Media</b>	Use equipment appropriate to the main source of the fire. Water spray, alcohol foam, dry chemical or CO2.
<b>Specific hazards arising from the chemical</b>	None

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Protection for Spills</b>	Keep unnecessary personnel away from spill. Use personal protective equipment; gloves and eye protection recommended. Ventilate area of leak or spill.
<b>Methods for Containment</b>	Stop flow of material if safe to do so. Dike spilled material. Absorb spill with inert absorbent material. Sand, earth and vermiculite are suitable absorbent materials.
<b>Environmental Precautions</b>	Prevent further leakage. Contain spill if safe to do so. Do not let product enter storm drains if possible.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	See other relevant sections of this SDS. Avoid contact with skin and eyes. Use with adequate ventilation. Do not handle and store near open flames, high heat or sources of ignition
<b>Storage</b>	Keep containers closed when not in use. Avoid storage in extreme temperatures and in direct sunlight.
<b>Incompatible Materials for Storage</b>	Oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

This product contains water and components whose specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### Engineering Controls

None required other than preventing direct contact with product.

### Personal Protective Equipment

#### Eye Protection:

Use normal eye protection practices such as safety glasses with side shields. Use chemical goggles if risk of splashing is high.

#### Skin Protection

Follow good industrial hygiene practices.

#### Respiratory Protection

Not required under foreseeable conditions of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Flash Point	None to Boil (ASTM D93)
Color	Clear/Yellow Liquid	Boiling Point	~ 215°F
Odor	Mild soap odor	Evaporation Rate	Not determined
Odor Threshold	Not determined	UEL/LEL	Not determined
		Flammability (solid, gas)	Not determined
pH	4.5 – 7.5	Vapor Pressure	Not determined
Solubility in Water	100%	Vapor Density	Not determined
		Relative Density	Not Determined
Bulk Density	10.17 – 10.26 lbs/gal	Partition Coefficient	Not determined
Specific gravity	1.22 – 1.23 @ 20°C	Autoignition Temperatures	Note determined
Viscosity	20 cPs @ 20C	Decomposition Temperature	Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Avoid contact with oxidizing agents

### Chemical Stability

Stable under normal storage conditions

### Possibility of hazardous reactions

None known

### Conditions to Avoid

Heat, flames, sparks. Contact with oxidizing agents

### Incompatible Materials

None known

### Hazardous Decomposition Products

None known

## 11. TOXICOLOGY

<b>Eye Contact</b>	Not known to be an eye irritant. Not absorbed through mucous membranes
<b>Skin Contact</b>	Not known to be a skin irritant. Not absorbed through skin.
<b>Inhalation</b>	Not known to be an inhalation hazard.
<b>Ingestion</b>	Ingestion of this product may be harmful if swallowed in large quantities
<b>Target Organs</b>	None
<b>Prolonged Exposure</b>	Not known to be a hazard.
<b>Acute Toxicity</b>	None known
<b>Carcinogenicity</b>	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA
<b>Mutagenicity</b>	In vitro: NO positive evidence. In vivo: NO positive evidence.
<b>Reproductive Toxicity</b>	Not classified as a reproductive toxin by any authoritative body or regulatory agency

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No information found
<b>Persistence and degradability</b>	Rapidly biodegradable
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	Soluble in water
<b>Other adverse effects</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

This product as supplied is not classified as a RCRA hazardous waste according to 40 CFR 261. However it should be fully characterized prior to disposal as contamination with other materials may subject it to hazardous waste regulations. RCRA requires the user of the product to determine whether the product meets RCRA criteria for hazardous waste. Always consult with local, state and federal regulations prior to disposal.

## 14. TRANSPORTATION INFORMATION

<b>US Domestic DOT</b>	Not Regulated
<b>Shipping Name</b>	Shipment of this product is not controlled by ICAO, USDOT or Canadian TDG regulations
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods
<b>Marine pollutant</b>	No

15. REGULATORY INFORMATION

United States

Toxic Substances Control Act

The components of this product are listed on the TSCA Inventory of Existing Chemical Substances

Section 302 (EHS) TPQ Not applicable

Section 304 (EHS) TPQ Not applicable

SARA Section 311/312 Hazard Categories

- Acute - NO
- Chronic – NO
- Physical - None
- Pressure Hazard - NO
- Fire Hazard - NO

SARA Section 313 Not applicable

CERCLA Not applicable

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

State Right to Know Regulations: No ingredients listed with any state.

16. ADDITIONAL INFORMATION

SDS REVISION STATUS: January 15, 2021 | Replaces: March 11, 2019

THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF ITS PUBLICATION DATE, BUT MAKE NO WARRANTY THAT IT IS. IF THIS SDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.