

MicroC[®] 4150

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MicroC 4150™ **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**

2. HAZARDS IDENTIFICATION

WARNING

COMBUSTIBLE LIQUID AND VAPOR

WARNING

Hazard Classification:

Combustible Liquid and Vapor (Category 4)

Acute Toxicity (Oral) (Category 4)

Acute Toxicity (Inhalation) (Category 4)

Specific Organ Toxicity (Methanol) – Single Exposure (Category 3)

Hazard Statements:

Combustible Liquid

Harmful if swallowed

Harmful if inhaled

May cause respiratory irritation/drowsiness/dizziness. Methanol causes damage to organs (central nervous system/eyes)



Precautionary Statements:

Keep away from heat/sparks/open flames/hot surfaces – No Smoking

Keep container tightly closed/ground container and receiving equipment

Use explosion proof electrical/ventilating/lighting/non-sparking tools

Protect against static discharge

If swallowed, seek medical attention

Avoid breathing vapors. If inhaled remove person to fresh air.

Wear protective gloves/eye protection. Wash affected areas with water. Seek medical attention if irritation persists.

Dispose of contents/containers in accordance with local, state and federal regulations.

Safety Data Sheet

Potential Health Effects

Routes of Exposure	Ingestion, inhalation, skin contact, eye contact
Eyes	May cause minor irritation
Skin	May cause minor irritation
Inhalation	May be harmful if inhaled, causes dizziness, headaches, drowsiness
Ingestion	Harmful if swallowed

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	% by Weight
Trade Secret components*	n/a	40-60%
Water	7732-18-5	40-60%
Methanol	67-56-1	3-4%

*** 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.**

4. FIRST AID MEASURES

Eye Contact	Immediately flush eyes thoroughly with plenty of water for 15 minutes while holding eyelids apart.
Skin Contact	Remove contaminated clothing and wash affected area with water and soap. Repeated and prolonged exposure may cause skin irritation and absorption through the skin resulting in a health hazard.
Inhalation	Remove individual to fresh air. Symptoms may include dizziness, headache, nausea, disorientation, blurred vision.
Ingestion	Ingestion of methanol can cause blindness and death. Ingestion of methanol causes CNS depression, nausea, headache, vomiting. Seek emergency medical attention immediately.
General Advice	If individual feels unwell following the exposure to the product consult a physician immediately. Present this Safety Data Sheet to the doctor in attendance.
Note to physician	Product contains methanol.

5. FIRE FIGHTING MEASURES

Flammability Summary	Flammable Material per OSHA 1910.1200 Flashpoint 147 F Product does not sustain combustion ASTM D 4206
Protection of Firefighters:	Wear suitable protective equipment. Wear self contained breathing apparatus if necessary
Extinguishing Media	Use equipment appropriate to the main source of the fire. Water spray, alcohol foam, dry chemical or CO2.
Specific hazards arising from the chemical	Carbon oxides may form.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Spills	Keep unnecessary personnel away from spill. Use personal protective equipment; gloves and eye protection recommended. Ventilate area of leak or spill. Wear respiratory protection. Remove all sources of ignition. Beware of vapors accumulating.
Methods for Containment	Stop flow of material if safe to do so. Remove all ignition sources. Dike spilled material. Absorb spill with inert absorbent material. Sand, earth and vermiculite are suitable absorbent materials.
Environmental Precautions	Prevent further leakage. Contain spill if safe to do so. Do not let product enter storm drains if possible. Product is readily biodegradable.

7. HANDLING AND STORAGE

Precautions for Safe Handling	See other relevant sections of this SDS. Avoid contact with skin and eyes, do not breath vapors. Use with adequate ventilation. Do not handle and store near open flames, high heat or sources of ignition. Handle empty containers with care as residual vapors may be flammable.
Storage	Keep containers closed when not in use. Avoid storage in extreme temperatures and in direct sunlight.
Incompatible Materials for Storage	Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Component	Concentration in Product	ACGIH TLV	OSHA TABLE Z-1 Limits for Air Contaminants	NIOSH
Trade Secret	40-60% w/w	No occupational exposure limits established	No occupational exposure limits established	No occupational exposure limits established
Methanol CAS No: 67-56-1	3-4 % w/w	TWA: 260 mg/m3	PEL: 260 mg/m3	TWA: 260 mg/m3

Engineering Controls

Use product in a well ventilated area. Use explosion proof equipment.

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

Wear gloves. Follow good industrial hygiene practices.

Respiratory Protection

Where exposure through inhalation may occur, respiratory protection is recommended. Wear a positive pressure full face self-contained breathing apparatus or a full face supplied air respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Flash Point	147 F (ASTM D93)
Color	Clear/Yellow Liquid	Boiling Point	~ 215°F
Odor	Mild methanol odor	Evaporation Rate	Not determined
Odor Threshold	Not determined	UEL/LEL	For Methanol: LEL 6.7% UEL 36%
pH	4.0-6.0	Flammability (solid, gas)	Not determined
Solubility in Water	100%	Vapor Pressure	Not determined
		Vapor Density	Not determined
		Relative Density	Not Determined
Bulk Density	9.84 – 9.92 lbs/gal	Partition Coefficient	Not determined
Specific gravity	1.18 – 1.19 @ 20°C	Auto-ignition Temperatures	> 500 F
Viscosity	20 cPs @ 20C	Decomposition Temperature	Not determined

Safety Data Sheet

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical Stability	Stable under normal storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air
Conditions to Avoid	Heat, flames, sparks. High temperature.
Incompatible Materials	Oxidizing agents. Viton, Buna-N
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.

11. TOXICOLOGY

INSUFFICIENT DATA ON MIXTURE. DATA ON INDIVIDUAL COMPONENTS PROVIDED BELOW

Methanol 67-56-1

Acute Toxicity	Dermal LD50 = 15,800 mg/kg (Rabbit) Inhalation LC50 = 64,000 mg/m ³ 4 hr (Rat) Oral LD50 = 5,600 mg/kg (Rat)
Carcinogenicity	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA
Mutagenicity	No data available
Reproductive Toxicity	No data available
Serious eye damage/irritation	Moderate eye irritant
Skin Corrosion/Irritation	Not known to be a skin irritant.
Respiratory or skin sensitization	Not classified
Ingestion	Toxic if swallowed
Target Organs	Central nervous system, eyes
Prolonged Exposure	Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence and degradability	Rapidly biodegradable
Bioaccumulative potential	No data available
Mobility in soil	Soluble in water; mobile in soil
Other adverse effects	No data available

Safety Data Sheet

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS

Waste Disposal Summary:

Product as supplied qualifies as "Unlisted Hazardous Waste D001" with the characteristic of ignitability.

14. TRANSPORTATION INFORMATION

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number: 800-424-9300	
US Domestic DOT:	Not regulated per exemptions: 49 CFR 173.120(a)(3) and 173.120(b)(3)
Labels required per 49 CFR 172.101:	Not regulated
Size for "Limited quantity" per 49 CFR 173.150-.155:	Not regulated
Reportable Quantity ("RQ") per 49 CFR 172.101:	Not regulated
Bulk Shipments (Domestic): Combustible Liquid, N.O.S. NA1993, Hazard Class = Combustible, PG III	

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	Methanol (5000#'s)

SARA Section 311/312 Hazard Categories

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

Safety Data Sheet

SARA Section 313

Methanol CAS No: 67-56-1

CERCLA

Methanol (5000#'s)

State Right to Know Regulations: Massachusetts, Pennsylvania, New Jersey

16. ADDITIONAL INFORMATION

MSDS REVISION STATUS: January 15, 2015 | 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.