

# MicroC<sup>®</sup> 3200

## 1. PRODUCT AND SUPPLIER INFORMATION

**Product Name:** MicroC<sup>®</sup> 3200

**Publication Date:** February 7, 2025

**Product Code:** NA

**Replaces:** September 29, 2023

Supplier Information:

Environmental Operating Solutions, Inc  
53 Portside Drive  
Pocasset, MA 02559

Phone: 508-743-8440  
Fax: 844-308-5537  
Website: [www.microc.com](http://www.microc.com)

**EMERGENCY TELEPHONE NUMBER:**

**CHEMTREC**

**800-424-9300**

## 2. HAZARDS IDENTIFICATION

**DANGER!**

**EMERGENCY OVERVIEW**

**DANGER!**

**OSHA Hazards:**

Flammable liquid, target organ effect, toxic by inhalation, toxic by ingestion, toxic by skin absorption,

**Target Organs:**

Eyes, kidneys, liver, heart, central nervous system

**GHS Classification:**

Flammable Liquids (Category 2)

Acute toxicity: ORAL, DERMAL, INHALATION (Category 3)

Specific target organ toxicity – single exposure Category 1

**Pictogram:**



**Hazard Statement(s)**

H225

H301 + H311 + H331

H370

Highly flammable liquid and vapor

Toxic if swallowed, in contact with skin or if inhaled

Causes damage to Organs

**Precautionary Statement(s)**

P210

P260

P280

P301 + P310

P307 + P311

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

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing

IF SWALLOWED: Immediately call a Poison Center or doctor

IF exposed: Call a Poison Center or doctor

**Hazard Summary**

	NFPA	HMIS
Health Hazard	1	1
Flammability	3	3
Reactivity	0	0
Specific Hazard	None	None

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## Potential Health Effects

Eyes	Causes eye irritation
Skin	Toxic if absorbed through the skin, causes burns and irritation
Inhalation	Toxic if inhaled. Causes respiratory irritation.
Ingestion	Toxic if swallowed

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration by weight %
Methanol	67-56-1	> 90%
Methyl Acetate	79-20-9	1-2 %
Water	7732-18-5	< 10%

## 4. FIRST AID

### General advice

Consult a physician. Show this safety data sheet to a physician. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE FIGHTING MEASURES

### Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

### Further information

Use water spray to cool unopened containers.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for safe storage

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.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	NIOSH
<b>Methanol</b> <b>67-56-1</b>	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m3	<b>TWA: 200 ppm</b> <b>TWA: 260 mg/m3</b>
<b>Methyl Acetate</b> <b>79-20-9</b>	<b>TWA: 200 ppm</b> <b>STEL: 250 ppm</b>	<b>TWA: 200 ppm</b>	<b>TWA: 200 ppm</b> <b>TWA: 610 mg/m3</b>

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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## Skin and body protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Volatiles, %</b>	> 90%
<b>Color</b>	Colorless to Yellow	<b>Boiling Point</b>	64.7 °C (148.5°F) For Methanol
<b>Clarity</b>	Clear	<b>Freezing Point</b>	Below Zero Fahrenheit
<b>Odor</b>	Alcohol/Sweet	<b>Flash Point</b>	9.7 °C (49.5°F) For Methanol
<b>pH</b>	Not Determined	<b>Autoignition Temperature</b>	455.0 °C For Methanol
<b>Solubility in Water</b>	Miscible in water	<b>Vapor Pressure</b>	130.3 hPa (97.7 mmHg) at 20°C
<b>Bulk Density</b>	6.60 lbs/gal		For Methanol
<b>Specific Gravity</b>	0.79 g/cm <sup>3</sup> @ 20°C	<b>Viscosity</b>	< 10 cPs @ 20°C

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapors may form explosive mixture with air.

### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### Materials to avoid

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides,  
Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### NO DATA ON MIXTURE. VALUES BELOW ARE FOR METHANOL

#### Acute toxicity

##### Oral LD50

LDLO Oral – Human 143 mg/kg

Remarks: Lungs, Thorax, or Respiration

LD50 Oral Rat – 1187-2769 mg/kg

##### Inhalation LC50

LC50 Inhalation – rat – 4h – 128.2 mg/L

LC50 Inhalation – rat – 6h – 87.6 mg/L

##### Dermal LD50

LD50 Dermal – rabbit – 17,100 mg/kg

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## Other information on acute toxicity

No data available

## Skin corrosion/irritation

Skin – rabbit – No skin irritation

## Serious eye damage/eye irritation

Eyes – rabbit – no eye irritation

## Respiratory or skin sensitization

Does not cause skin sensitization

## Carcinogenicity

IARC: 3 – No component of this product greater than 0.1% is identified as probable, possible or confirmed human carcinogen

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive

**toxicity** no data

available

## Teratogenicity

no data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

Causes damage to organs

## Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

## Aspiration

**hazard** no data

available

## Potential health effects

**Inhalation** Toxic if inhaled. Causes respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** Toxic if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye burns. Causes eye irritation.

## Signs and Symptoms of Exposure

Methyl alcohol may be fatal or cause blindness if swallowed.

Effects due to ingestion may include: headache, dizziness, drowsiness, metabolic acidosis, coma, seizures.

Symptoms may be delayed. Damage of the: liver, kidney,

## Synergistic effects

no data available

## Additional

**Information** RTECS:

PC1400000

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## 12. ECOLOGICAL INFORMATION

NO DATA ON MIXTURE, VALUES BELOW ARE FOR METHANOL

### Toxicity

Toxicity to fish                      Mortality LC50 – Bluegill – 15,400 mg/L – 96 hour  
Toxicity to daphnia                EC50 – Daphnia - > 10,000 mg/L – 48 hour

### Persistence and degradability

Biodegradability                      Rapidly biodegradable

### Bioaccumulative potential

Bioaccumulation                      Carp – 72 d at 20C. Bioconcentration factor: 1.0

### Mobility in soil

Will not adsorb on soil

### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic.

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORTATION INFORMATION

### DOT (US)

UN number: 1230 Class: 3 Packing group: II

Proper shipping name: Methanol

Reportable Quantity (RQ): 5000 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

UN number: 1230 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: Methanol

Marine pollutant: No

### IATA

UN number: 1230 Class: 3 Packing group: II

Proper shipping name: Methanol

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15. REGULATORY INFORMATION

OSHA Hazards

Flammable liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption,

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol                      CAS NO: 67-56-1                      Revision Date: 2007-07-

01 SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Methanol                      CAS NO: 67-56-1                      Revision Date: 2007-07-

01 Pennsylvania and New Jersey Right To Know Components

Methanol                      CAS NO: 67-56-1                      Revision Date: 2007-07-01

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Methanol                                              CAS-No. 67-56-1                      Revision Date 2012-03-16

16. ADDITIONAL INFORMATION

SDS REVISION STATUS: February 7, 2025 Replaces: September 29, 2023

THIS SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS 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 MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.