# MicroC°4275



## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MicroC<sup>®</sup> 4275 Publication Date: March 11, 2024

**Product Code:** NA **Replaces:** January 15, 2021

**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

Hazard Statement: WARNING!
May cause skin and eye irritation

OSHA and GHS Classification Category: Skin - Category 2 Eye - Category 2B

### **Precautionary Statement:**

Wear protective gloves/eye protection. Avoid breathing dust/mist. Wash affected areas with water. Seek medical attention if irritation persists. Dispose of contents/containers in accordance with local, state and federal regulations.

Note: When vaporized, glycerin mist may cause irritation of the respiratory tract.

#### **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
Glycerin; glycerol	56-81-5	40-70%
Water	7732-18-5	25-30%
Urea	57-13-6	0-30%
Sodium Chloride	7647-14-5	2-6%
Phosphoric Acid	7664-39-2	0-10%
Sodium Hydroxide	1310-73-2	0-3%
Methanol	67-56-1	< 1%

### 4. FIRST AID MEASURES

Eye Contact Immediately flush eyes thoroughly with plenty of water for 15 minutes and

consult a physician if irritation persists.

Skin Contact Remove contaminated clothing and wash affected area with water and

soap. Consult physician if irritation develops

**Inhalation** Remove individual to fresh air. Seek medical attention if breathing

problems persist

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly. Seek medical attention.

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 Treat patient symptomatically

# 5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA and NFPA) Non-flammable Material

**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. Water or alcohol foam may cause

frothing

Specific hazards arising from the chemical Carbon oxides

# **6. ACCIDENTAL RELEASE MEASURES**

Personal Protection for Spills Keep unnecessary personnel away from spill. Use personal protective

equipment. Ventilate area of leak or spill. Avoid breathing vapors and mist.

**Methods for Containment** Eliminate all sources of ignition. 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.

**Environmental Precautions** Prevent further leakage. Contain spill if safe to do so. Do not let product enter

storm drains if possible.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** See other relevant sections of this SDS. Avoid contact with skin and

eyes. Avoid breathing mist. Use with adequate ventilation. Do not handle and store near open flames, high heat or sources of ignition.

**Storage** Keep containers closed when not in use. Minimize evaporative losses.

Keep away from ignition sources.

Incompatible Materials for Storage None known

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

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INSUFFICIENT DATA ON MIXTURE. DATA ON INDIVIDUAL COMPONENTS PROVIDED BELOW

Component	Concentration in Product	ACGIH TLV	OSHA TABLE Z-1 Limits for Air Contaminants	NIOSH		
Glycerin CAS No: 56-81-5	70-74% w/w	Form: Glycerin Mist TWA: 10 mg/m3	Form: Total Dust PEL: 15 mg/m3 Form: Respirable	Insufficient Data on Glycerin Mist		
			Fraction PEL: 5 mg/m3			
Phosphoric Acid CAS No: 7664-38-2	0-3% w/w		PEL: 1 mg/m3	TWA: 1 mg/m3		
Sodium Hydroxide CAS No: 1310-73-2	0-3% w/w		PEL: 2 mg/m3	TWA: 2 mg/m3		
Methanol CAS No: 67-56-1	< 1 % w/w	TWA: 260 mg/m3	PEL: 260 mg/m3	TWA: 260 mg/m3		
below recon			er equipment and storage conditions to control airborne levels commended exposure limits.			
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		Handle with chemical resistant gloves. Dispose of contaminated gloves after use. Nitrile gloves recommended.				
Respiratory Protection	1	If workers could be exposed to concentrations above the exposure				

# combination cartridges.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Flash Point	None to Boil (ASTM D93)
Color	Light Brown	<b>Boiling Point</b>	Not determined
Odor	Musty – Sweet Odor	<b>Evaporation Rate</b>	Not determined
Odor Threshold	Not determined	UEL/LEL	Not determined
		Flammability (solid, gas)	Not determined
рН	3.0-6.0	Vapor Pressure	Not determined
Solubility in Water	Highly soluble in water	Vapor Density	Not determined
		<b>Relative Density</b>	Not Determined
<b>Bulk Density</b>	10.51 lbs/gal	<b>Partition Coefficient</b>	Not determined
Specific gravity	1.26@ 20°C	<b>Autoignition Temperature</b>	s
		Decomposition	
Viscosity	45 cPs @ 20C	Temperature	Not determined

limits in Section 8, use a full face respirator with multipurpose

# 10. STABILITY AND REACTIVITY

Reactivity Avoid contact with oxidizing agents (e.g. nitric acid, peroxides, chromates)

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

Oxides of carbon under high heat

# 11. TOXICOLOGY

#### INSUFFICIENT DATA ON MIXTURE. DATA ON INDIVIDUAL COMPONENTS PROVIDED BELOW

**Eye Contact** The components in this product may result in mild eye irritation from

contact with liquid or vapors. Symptoms include redness, swelling,

watering.

**Skin Contact** The components in this product may result in mild skin irritation. Symptoms

include redness, itching, burning, dermatitis.

**Inhalation** Breathing high mist concentrations may be harmful. Inhalation can cause

irritation of the throat and lungs.

**Ingestion** Ingestion of this product may result in nausea, vomiting and diarrhea.

Aspiration into the lungs can cause damage and inflammation to the lungs.

Target Organs Lungs, Kidneys

Prolonged Exposure Symptoms include nausea, headache, vomiting

Component	Concentratio n in Product	Acute Toxicity	Carcino- genicity	Muta- genicity	Repro- ductive Toxicity
Glycerin CAS No: 56-81-5	70-74% w/w	Dermal LD50 = > 10,000 mg/kg (Rabbit) Inhalation LC50 = > 570 mg/m <sup>3</sup> 1 hr (Rat) Oral LD50 = 12,600 mg/kg (Rat)	Not listed by ACGIH, IARC, NIOSH, NTP, OSHA	No data available	No data available
Urea CAS No: 57-13-6	0 – 30 % w/w	Oral LD50 = 8,471 mg/kg (Rat)	Not listed by ACGIH, IARC, NIOSH, NTP, OSHA	No data available	No data available
Phosphoric Acid CAS No: 7664- 38-2	0-3% w/w	Dermal LD50 = >1260-3160 mg/kg (Rabbit) Inhalation LC50 = 61-1689 mg/m <sup>3</sup> 1 hr (Mouse, rat, rabbit) Oral LD50 = 1530 mg/kg (Rat)	Not listed by ACGIH, IARC, NIOSH, NTP, OSHA	No data available	No data available

Component	Concentra tion in Product	Acute Toxicity	Carcino-genicity	Muta- genicity	Repro- ductive Toxicity
Sodium Hydroxide CAS No: 1310- 73-2	0-3% w/w	Dermal LD50 = 12,894 mg/kg (Rabbit) Inhalation LC50 = Not Available Oral LD50 = > 90,000 mg/kg (Rabbit)	Not listed by ACGIH, IARC, NIOSH, NTP, OSHA	No data available	No data available
Methanol CAS No: 67-56-1	< 1 % w/w	Dermal LD50 = 15,800 mg/kg (Rabbit) Inhalation LC50 = 64,000 mg/m <sup>3</sup> 4 hr (Rat) Oral LD50 = 5,600 mg/kg (Rat)	Not listed by ACGIH, IARC, NIOSH, NTP, OSHA	No data available	No data available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity Glycerin: 96 hr LC50: 51,000-57,000 mg/L (Rainbow Trout), > 5000 mg/L Goldfish

Methanol: 96 hr LC50: > 15,400-29,400 mg/L (Fish)

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

No data available

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

US Domestic DOT Not Regulated

Shipping Name Glycerin; Glycerol

IMDG Not dangerous goods

IATA Not dangerous goods

Marine pollutant 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 Phosphoric Acid (5000 #'s), Sodium Hydroxide (1000 #'s)

#### SARA Section 311/312 Hazard Categories

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

#### **SARA Section 313**

This product may contain trace amounts of a chemical that is subject to reporting requirements of SARA Methanol CAS # 67-56-1 Typical % Weight in Product 0.0-0.10%

#### **CERCLA**

This product may contain trace amounts of a chemical that is subject to reporting requirements of CERCLA Methanol RQ # 5,000. Typical % Weight in Product 0.0-0.10%

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

**State Right to Know Regulations** 

California – Proposition 65 WARNING: This product contains a chemical known to the State of California to

cause birth defects or other reproductive harm:

CAS# 67-56-1 - Methanol

Massachusetts Right to Know Glycerin, Methanol, Phosphoric Acid, Sodium Hydroxide

Minnesota Hazardous Substances List Glycerin mist, Methanol

New Jersey Right to Know Methanol. Phosphoric Acid, Sodium Hydroxide

Pennsylvania Right to Know Glycerin, Methanol, Phosphoric Acid, Sodium Hydroxide

**Rhode Island Right to Know** Glycerin, Methanol, Sodium Hydroxide

### 16. ADDITIONAL INFORMATION

SDS REVISION STATUS: March 11, 2024 | Replaces: January 15, 2021

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 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.