

SAFETY DATA SHEET

Version 8.12 Revision Date 02/14/2025 Print Date 02/14/2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : M-COLIBLUE, 2ml, 50/PK COLIFORM & E

COLI DETECTION MEDIUM

Product Number : M00PMCB24 Catalogue No. : 6A4889 Brand : Millipore

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Biochemical research/analysis

Uses advised against

The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin sensitization (Category 1), H317 Short-term (acute) aquatic hazard (Category 3), H402

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

(!)

Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

Precautionary Statements

P261 Avoid breathing mist or vapors.

P272 Contaminated work clothing must not be allowed out of the

workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/ container to an approved waste disposal

plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Component		Classification	Concentration
ethanol			
CAS-No.	64-17-5	Flam. Liq. 2; Eye Irrit. 2A;	>= 1 - < 5 %
EC-No.	200-578-6	H225, H319	
Index-No.	603-002-00-5	Concentration limits:	
Registration	01-2119457610-43-	>= 50 %: Eye Irrit. 2A,	
number	XXXX	H319;	
Pyruvic acid sodiur	n salt		
CAS-No.	113-24-6	Eye Irrit. 2A; Skin Sens.	>= 1 - < 5 %
EC-No.	204-024-4	1B; H319, H317	
Registration			
number	01-2120767047-50-		
	XXXX		
sodium azide			
CAS-No.	26628-22-8	Acute Tox. 2; Acute Tox.	>= 0.1 - < 1
EC-No.	247-852-1	1; STOT RE 2; Aquatic	%
Index-No.	011-004-00-7	Acute 1; Aquatic Chronic	
Registration	01-2119457019-37-	1; H300, H330, H310,	
number	XXXX	H373, H400, H410	
		M-Factor - Aquatic Acute:	



		1 M-Factor - Aquatic Chronic: 1			
Octylphenol polyethoxyethanol					
CAS-No.	9036-19-5	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H315, H318, H400, H410 M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 1			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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5.2 Special hazards arising from the substance or mixture

Carbon oxides

Oxides of phosphorus

Hydrogen chloride gas

Potassium oxides

Sodium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 12: Non Combustible Liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Ingredients wit	h workplace	control par	ameters	
Component	CAS-No.	Value	Control	Basis
			parameters	
ethanol	64-17-5	TWA	1,000 ppm	USA. Occupational Exposure
			1,900 mg/m3	Limits (OSHA) - Table Z-1
				Limits for Air Contaminants
		STEL	1,000 ppm	USA. ACGIH Threshold Limit
				Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to		
		humans	1	
		TWA	1,000 ppm	USA. NIOSH Recommended
			1,900 mg/m3	Exposure Limits
		PEL	1,000 ppm	California permissible exposure
			1,900 mg/m3	limits for chemical
				contaminants (Title 8, Article
		_		107)
sodium azide	26628-22-	С	0.29 mg/m3	USA. ACGIH Threshold Limit
	8			Values (TLV)
		Not classifiable as a human carcinogen		
		С	0.11 ppm	USA. ACGIH Threshold Limit
			''	Values (TLV)
		Not classifiable as a human carcinogen		
		С	0.1 ppm	USA. NIOSH Recommended
				Exposure Limits
		Potential for dermal absorption		
		С	0.3 mg/m3	USA. NIOSH Recommended
				Exposure Limits
		Potential for dermal absorption		
		С	0.1 ppm	California permissible exposure
			0.3 mg/m3	limits for chemical
				contaminants (Title 8, Article
				107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

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

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Skin protection

required

Body Protection

protective clothing

Respiratory protection

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented. required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Color: blue

b) Odor No data availablec) Odor Threshold No data available

d) pH 6.8 - 7.2

e) Melting No data available point/freezing point

f) Initial boiling point and boiling range

No data available

g) Flash point ()Not applicableh) Evaporation rate No data availablei) Flammability (solid, No data available

gas)

j) Upper/lower No data available

flammability or explosive limits

k) Vapor pressure No data availablel) Vapor density No data availablem) Density No data available

Relative density No data available

n) Water solubility soluble

o) Partition coefficient: No data available

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Millipore SigMa n-octanol/water

p) Autoignition Not applicable temperature

q) Decomposition No data available temperature

r) Viscosity No data available

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available

Acute toxicity estimate Inhalation - 4 h - 50.01 mg/l - dust/mist(Calculation method)

Acute toxicity estimate Dermal - > 5,000 mg/kg (Calculation method)

Skin corrosion/irritation

No data available



Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

Mixture may cause an allergic skin reaction.

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient 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

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Components

ethanol

Acute toxicity

LD50 Oral - Rat - male and female - 10,470 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 124.7 mg/l - vapor

(OECD Test Guideline 403) Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye irritation.

(OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Methanol

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

Method: OECD Test Guideline 478

Species: Mouse - male

Result: Positive results were obtained in some in vivo tests.

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Aspiration hazard

No data available

Pyruvic acid sodium salt

Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 42 min

(OECD Test Guideline 439)

Serious eye damage/eye irritation

Eyes - In vitro study

Result: Causes serious eye irritation. - 6 h

(OECD Test Guideline 492)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

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Result: positive

(OECD Test Guideline 429)

Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative

Species: Rat - male - Red blood cells (erythrocytes)

Result: negative Remarks: (ECHA) Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Aspiration hazard

No data available

sodium azide

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Acute toxicity

LD50 Oral - Rat - 27 mg/kg

Remarks: (RTECS)

LC50 Inhalation - Rat - male and female - 4 h - 0.054 - 0.52 mg/l - dust/mist

(US-EPA)

LD50 Dermal - Rabbit - 20 mg/kg

Remarks: (RTECS) No data available

Skin corrosion/irritation

Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439)

Serious eye damage/eye irritation

Eyes - Bovine cornea

Result: No eye irritation - 4 h (OECD Test Guideline 437)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse



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Result: negative

(OECD Test Guideline 429)

Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Result: negative

Test Type: unscheduled DNA synthesis assay Test system: Chinese hamster lung cells

Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Oral - May cause damage to organs through prolonged or repeated exposure. - Brain

Aspiration hazard

No data available

Octylphenol polyethoxyethanol

Acute toxicity

LD50 Oral - Rat - 1,900 - 5,000 mg/kg

Remarks: (External MSDS)

Symptoms: Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration

may cause pulmonary edema and pneumonitis.

Inhalation: No data available

LD50 Dermal - Rabbit - > 3,000 mg/kg

Remarks: (External MSDS) **Skin corrosion/irritation**

Skin - Rabbit

Result: irritating - 4 h (OECD Test Guideline 404)

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-

tetramethylbutyl)phenol

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes.

(Draize Test)

Remarks: Risk of corneal clouding.

Respiratory or skin sensitization

Sensitisation test: - Human

Result: negative

Remarks: (External MSDS)

Patch test on human volunteers did not demonstrate sensitization properties.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

Ingestion of excessive amounts by pregnant animals resulted in maternal and fetal toxicity. Did not show teratogenic effects in animal experiments.

Specific target organ toxicity - single exposure

Acute oral toxicity - Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Mixture

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

Components

ethanol

flow-through test LC50 - Pimephales promelas (fathead Toxicity to fish

minnow) - 15,300 mg/l - 96 h

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(US-EPA)

Toxicity to daphnia and other aquatic invertebrates

static test LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l

- 48 h

Remarks: (ECHA)

static test ErC50 - Chlorella vulgaris (Fresh water algae) - 275 Toxicity to algae

mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test IC50 - activated sludge - > 1,000 mg/l - 3 h

(OECD Test Guideline 209)

semi-static test NOEC - Danio rerio (zebra fish) - 250 mg/l -Toxicity to

fish(Chronic toxicity) 120 h

Remarks: (ECHA)

Toxicity to daphnia

and other aquatic

toxicity)

semi-static test NOEC - Daphnia magna (Water flea) - 9.6 mg/l

- 9 d

invertebrates(Chronic Remarks: (ECHA)

Pyruvic acid sodium salt

Toxicity to daphnia and other aquatic

static test EC50 - Daphnia magna (Water flea) - > 100 mg/l -

48 h

invertebrates (OECD Test Guideline 202)

Growth inhibition ErC50 - Raphidocelis subcapitata (freshwater Toxicity to algae

green alga) - > 3.02 mg/l - 72 h

(OECD Test Guideline 201)

sodium azide

Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout)

- 2.75 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - 0.35 mg/l

- 96 h

(OECD Test Guideline 201)

Toxicity to bacteria

Octylphenol polyethoxyethanol

Toxicity to fish semi-static test LC50 - Leuciscus idus (Golden orfe) - 0.26 mg/l

- 96 h

(OECD Test Guideline 203)

Remarks: The value is given in analogy to the following

static test EC50 - Daphnia magna (Water flea) - 0.011 mg/l -

substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to daphnia

48 h

and other aquatic

Millipore - M00PMCB24 Page 13 of 16 invertebrates Remarks: (ECOTOX Database)

The value is given in analogy to the following substances: 4-

(1,1,3,3-tetramethylbutyl)phenol

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae)

- 1.9 mg/l - 96 h Remarks: (ECHA)

The value is given in analogy to the following substances: 4-

(1,1,3,3-tetramethylbutyl)phenol

Toxicity to

flow-through test NOEC - Danio rerio (zebra fish) - 0.012 mg/l

(OECD Test Guideline 210)

Remarks: The value is given in analogy to the following

substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to daphnia and other aquatic invertebrates(Chronic

fish(Chronic toxicity)

semi-static test NOEC - Daphnia magna (Water flea) - 0.03

mg/l - 21 d

invertebrates(Chronic (OECD Test Guideline 202) toxicity) Remarks: The value is give

Remarks: The value is given in analogy to the following

substances: 4-(1,1,3,3-tetramethylbutyl)phenol

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods



Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RO

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RO

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by

SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

ethanol 64-17-5 >= 1 - < 5 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide 1310-73-2 >= 0.1 - < 1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide 1310-73-2 >= 0.1 - < 1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

 water
 7732-18-5

 ethanol
 64-17-5

 sodium chloride
 7647-14-5

 Peptone
 73049-73-7

 sodium azide
 26628-22-8

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Pennsylvania Right To Know

sodium hydroxide

ethanol	64-17-5
sodium azide	26628-22-8
Maine Chemicals of High Concern	
water	7732-18-5
sodium chloride	7647-14-5
sodium hydroxide	1310-73-2
Vermont Chemicals of High Concern	
water	7732-18-5
sodium chloride	7647-14-5
sodium hydroxide	1310-73-2
Washington Chemicals of High Concern	
water	7732-18-5
sodium chloride	7647-14-5

The ingredients of this product are reported in the following inventories:

1310-73-2

TSCA : Product contains substance(s) not listed on TSCA

inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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