# SAFETY DATA SHEET



Print date 23-Jan-2021 **Revision Number** 1

1. Identification

**Product identifier** 

Foresight UNOsphere S Media (Columns, Plates, Robocolumn units) **Product Name** 

Other means of identification

Catalog Number(s) 7324730, 7324750, 7324710, 7324813, 7324814

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

Details of the supplier of the safety data sheet

**Corporate Headquarters Manufacturer Address Legal Entity / Contact Address** 

**Bio-Rad Laboratories** Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories 1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Life Science

Hercules, CA 94547 Hercules, California 94547

2000 Alfred Nobel Drive USA USA Hercules, California 94547

**Technical Service** 1-800-424-6723 support@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone CHEMTREC USA: 1 (800) 424-9300

Number

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 3

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

## Warning

## Hazard statements

Flammable liquid and vapor



Appearance Suspension Physical state Liquid Odor Alcohol

## **Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

#### **Precautionary Statements - Response**

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of fire: Use CO2, dry chemical, or foam to extinguish

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other information

## 3. Composition/information on ingredients

## Substance

Not applicable.

#### <u>Mixture</u>

| Chemical name | CAS No  | Weight-% | Trade secret |
|---------------|---------|----------|--------------|
| Ethyl alcohol | 64-17-5 | 10 - 20  | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

## **Description of first aid measures**

**General advice** No hazards which require special first aid measures.

**Inhalation** Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

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Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Rinse mouth thoroughly with water.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

No information available. Unsuitable extinguishing media

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See

> section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area.

Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

> suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store according to product and label instructions.

## 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits** 

| Chemical name | ACGIH TLV      | OSHA PEL                              | NIOSH IDLH                  |
|---------------|----------------|---------------------------------------|-----------------------------|
| Ethyl alcohol | STEL: 1000 ppm | TWA: 1000 ppm                         | IDLH: 3300 ppm              |
| 64-17-5       |                | TWA: 1900 mg/m <sup>3</sup>           | TWA: 1000 ppm               |
|               |                | (vacated) TWA: 1000 ppm               | TWA: 1900 mg/m <sup>3</sup> |
|               |                | (vacated) TWA: 1900 mg/m <sup>3</sup> | _                           |

#### **Appropriate engineering controls**

Engineering controls

Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Suspension
Color white
Odor Alcohol

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 6-8

Melting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

**Flash point** 36 °C / 96.8 °F

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Partially miscible

Solubility in other solventsNo data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive properties

Oxidizing properties

Not applicable

## 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid** Heat, flames and sparks.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

## Information on likely routes of exposure

## **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

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Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 36,205.10 mg/kg ATEmix (inhalation-dust/mist) 639.50 mg/l

**Component Information** 

| Chemical name            | Oral LD50          | Dermal LD50 | Inhalation LC50       |
|--------------------------|--------------------|-------------|-----------------------|
| Ethyl alcohol<br>64-17-5 | = 7060 mg/kg (Rat) | -           | = 124.7 mg/L (Rat)4 h |

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC    | NTP   | OSHA |
|---------------|-------|---------|-------|------|
| Ethyl alcohol | A3    | Group 1 | Known | X    |
| 64-17-5       |       |         |       |      |

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity Based on available data, the classification criteria are not met.

**STOT - single exposure**Based on available data, the classification criteria are not met.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Target organ effects Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive

system.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

Ecotoxicity

| Chemical name            | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea  |
|--------------------------|----------------------|--|----------------------------|--|
| Ethyl alcohol<br>64-17-5 | -                    | LC50: 12.0 - 16.0mL/L<br>(96h, Oncorhynchus<br>mykiss)<br>LC50: 13400 -<br>15100mg/L (96h,<br>Pimephales promelas)<br>LC50: >100mg/L (96h,<br>Pimephales promelas) | •                          | LC50: 9268 - 14221mg/L<br>(48h, Daphnia magna)<br>EC50: =10800mg/L (24h,<br>Daphnia magna)<br>EC50: =2mg/L (48h,<br>Daphnia magna) |

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Ethyl alcohol | -0.32                 |
| 64-17-5       |                       |

Other adverse effects No information available.

# 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

 $\label{eq:empty} \text{Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld}$ 

containers.

D001.

US EPA Waste Number

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name California Hazardous Waste Status |           |
|---|-----------|
| Ethyl alcohol                                   | Toxic     |
| 64-17-5   | Ignitable |

# 14. Transport information

DOTNot regulatedTDGNot regulatedMEXNot regulated

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IATA Not regulated

IMDG Not regulated

## 15. Regulatory information

## **International Inventories**

Contact supplier for inventory compliance status

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

| Chemical name           | California Proposition 65 |  |
|-------------------------|---------------------------|--|
| Ethyl alcohol - 64-17-5 | Carcinogen                |  |
| ·                       | Developmental             |  |

#### U.S. State Right-to-Know Regulations

**US State Regulations** 

This product does not contain any substances regulated by state right-to-know regulations

## **US State Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Ethyl alcohol | X          | X             | X            |
| 64-17-5       |            |               |              |

## U.S. EPA Label Information

## EPA Pesticide Registration Number Not applicable

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## 16. Other information

NFPA Health hazards 0 Flammability 3 Instability 0 Physical and chemical

properties -

Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

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**Revision Note**\*\*\* Indicates this information has changed since the previous revision.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**