

MICROBMONITOR²

SAFETY DATA SHEET

ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	MicrobMonitor2.
Trade name	MicrobMonitor2.
Product Code	ECHA16/MM/01 (MM2-001), ECHA16/MM/02 (MM2-005), ECHA16/MM/44 (MM2-044).
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Prepared culture media for the development of microorganisms (HS 38.21.00.00.00) originating in fuel samples or water associated with fuel from the following non-inclusive list of industrial sectors; aviation, petroleum, automotive, marine, power generation, military, fuel storage and end users of fuel.
Uses advised against	Not to be used to test any substance / sample of human or animal origin.
1.3 Details of the supplier of the safety data sheet	
Manufacturer	
Company Identification	ECHA Microbiology Ltd. Unit 22 & 23 Willowbrook Technology Park Llandogo Rd., CARDIFF CF3 0EF United Kingdom (UK). +44 (0)29 2036 5930 +44 (0)29 2036 1195 sales@echamicrobiology.com
Telephone	
Fax	
E-mail	
Supplier	
Company Identification	Karmark Group LLC Fuel Quality Services, Inc. Suite 202, 130 South Indian 4584 Cantrell Rd, Flowery River Drive Branch Fort Pierce, Florida 34950 GA 30542, USA United States of America +1 (772) 365 1119 +1 (770) 967 9790, +1 (772) 882 3057 +1 800-827-9790 - lance@karmarkgroup.com sales@fqsync.com
Telephone	
Fax	
E-mail	
1.4 Emergency telephone number	
Company (United Kingdom)	+44(0)7970 150682 & +44(0)7908 743709
Company (USA)	+1 (772) 365 1119 (Lance Skovsgard) +1 (770) 967 9790, +1 800-827-9790 (Debra Chesneau)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
US CFR 1910.1200	Not classified as dangerous for supply/use.
Product Name	MicrobMonitor2.
Hazard Pictogram(s)	None.
Signal word(s)	None.
Hazard statement(s)	None.
Precautionary statement(s)	None.

MICROBMONITOR[®] 2

- 2.3 Other hazards None.
2.4 Additional Information None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

No component is present at sufficient concentration to require a hazardous classification.

3.1 Substances

Not applicable.

3.2 Mixtures

Substances	%W/W	CAS No.	Hazard Statement(s)	Hazard Pictogram(s)
Water	>97	7732-18-5	Not classified.	None
Tryptone	<0.5	73049-73-7	Not classified.	None
Purified Agar	<0.3	9002-18-0	Not classified.	None

SECTION 4: FIRST AID MEASURES

- 4.1 **Description of first aid measures**
Inhalation Unlikely route of exposure.
Skin Contact Wash with plenty of water.
Eye Contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.
Ingestion Wash out mouth with water. Get medical advice/attention if you feel unwell.
- 4.2 **Most important symptoms and effects, both acute and delayed** Unlikely to be required but if necessary treat symptomatically.
- 4.3 **Indication of any immediate medical attention and special treatment needed** No special requirements.
- 4.4 **Additional Information** Exposure to the content of used test kit: If symptoms occur obtain medical attention.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 **Extinguishing Media**
Suitable extinguishing media As appropriate for surrounding fire.
Unsuitable extinguishing media None known.
- 5.2 **Special hazards arising from the substance or mixture** This product may give rise to hazardous fumes in a fire. Hazardous decomposition products: Carbon monoxide, Carbon dioxide.
- 5.3 **Advice for firefighters** Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit.

MICROBMONITOR[®] 2

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spillage is unlikely to occur unless the glass bottles of the test kit are broken.

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| 6.1 Personal precautions, protective equipment and emergency procedures | Caution - spillages may be slippery. Wear protective gloves. |
| 6.2 Environmental precautions | Avoid release to the environment. |
| 6.3 Methods and material for containment and cleaning up | |
| Unused test kit | Cover with absorbent or contain. Collect and dispose. |
| Used test kit | Cover with disinfectant. Wait for at least 10 minutes before recovering for disposal. If broken glass accidentally cuts the skin, clean the wound thoroughly and seek medical advice. |
| 6.4 Reference to other sections | See Also Section 8. |

SECTION 7: HANDLING AND STORAGE

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|---|---|
| 7.1 Precautions for safe handling | Wear appropriate personal protective equipment, avoid direct contact. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash the contaminated area of body with soap and fresh water. |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep container tightly closed in a cool dark place. Keep away from direct sunlight. |
| 7.2.1 Storage Temperature | |
| Unused test kit | Ideal storage temperature: 35.6 – 46.4°F (2 – 8 °C). |
| Used test kit | Incubate at 25° (or the temperature of the system being tested). If an incubator is not available use a dark warm draught free cupboard at 77°F (25°C.) |
| 7.2.2 Storage Life | Stable under normal conditions. |
| 7.2.3 Incompatible materials | No information available. |
| 7.3 Specific end use(s) | Prepared culture media for the development of microorganisms (HS 38.21.00.00.00) originating in fuel samples or water associated with fuel. |





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Water	7732-18-5	-	-	-	-	Not established
Tryptone	73049-73-7	-	-	-	-	Not established
Purified Agar	9002-18-0	-	-	-	-	Not established

Source: The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®), 2022

MICROBMONITOR[®] 2

8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Ensure adequate ventilation.
8.2.2 Personal protection equipment	
Eye/face protection	Wear protective eye glasses for protection against liquid splashes.
	
Skin protection (Hand protection/ Other)	Wear protective gloves.
	
Respiratory protection	Not normally required.
	
Thermal hazards	Not applicable.
	
8.2.3 Environmental Exposure Controls	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Gel in a glass bottle. Color : Colorless – Yellow – Pink.
Odor	Odorless.
Odor threshold	Not established.
pH	6.5
Melting point/freezing point	194°F (90°C)
Initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Solubility (Water) : Miscible. Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not Oxidizing.
9.2 Other information	None.

MICROBMONITOR[®] 2

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Keep away from direct sunlight.
10.5 Incompatible materials	No information available.
10.6 Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	Calculation method: Low acute toxicity. Used test kit: May be harmful and cause infection due to the presence of micro-organisms growing in the gel.
Skin corrosion/irritation	Calculation method: Not classified.
Serious eye damage/irritation	Calculation method: Not classified.
Respiratory or skin sensitization	Calculation method: Not classified. It is not a skin sensitizer.
Germ cell mutagenicity	Calculation method: Not classified.
Carcinogenicity	There is no evidence of mutagenic potential. Calculation method: Not classified.
Reproductive toxicity	No evidence of carcinogenicity. Calculation method: Not classified. No evidence of reproductive effects. Calculation method: Not classified.
STOT - single exposure	Calculation method: Not classified.
STOT - repeated exposure	Calculation method: Not classified.
Aspiration hazard	Calculation method: Not classified.
11.2 Other information	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms.
12.2 Persistence and degradability	The product is readily biodegradable. Unlikely to persist.
12.3 Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4 Mobility in soil	Soluble in water.
12.5 Other adverse effects	None anticipated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	If there is evidence of microbial contamination (i.e red spots can be seen in the gel) then dispose of as non sterile and used test kits. If no growth is visible in the gel then dispose of as sterile and unused tests.
Sterile and Unused Microbmonitor2 tests Licensed Waste Contractor	Dispose of via an authorised person / licensed waste contractor in accordance with local, state or national legislation.

MICROBMONITOR²

Incineration

Incineration may be carried out under controlled conditions provided local regulations for emissions are met by an authorised person / licensed waste contractor.

Non sterile and used Microbmonitor² tests

Disinfection followed by Licensed Waste Contractor

Sterilize the Microbmonitor² kits by following manufacturers instructions provided with the test kit. Dispose of via an authorised person / licensed waste contractor in accordance with local, state or national legislation.

Incineration

Classify as a bio-hazardous infectious test kit showing growth. Incineration may be carried out under controlled conditions provided local regulations for emissions are met by an authorised person / licensed waste contractor.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN number	Not applicable.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
14.8 Additional Information	Not applicable.

SECTION 15: REGULATORY INFORMATION

This product is not classified as a hazardous material under the criteria outlined in the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200).

15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)

National emission standards for hazardous air pollutants (40 CFR 61.01)

SARA Title III Section 313 Not listed

TSCA (Toxic Substance Control Act) Listed : 7732-18-5, 73049-73-7, 9002-18-0

CAA 602 - Ozone Depleting Substances (ODS) Not listed

15.2 US State Regulations

State Right to Know Lists

Proposition 65 (California) Not listed

Massachusetts Not listed

Minnesota Not listed

New Jersey Not listed

Pennsylvania Not listed

Rhode Island Not listed

MICROBMONITOR[®] 2

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed
NTP (National Toxicology Program)	Not listed
IARC (International Agency for Research on Cancer)	Not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1, 7 – 9, 11, 14 – 16

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
OSHA	Occupational Safety and Health Administration
TSCA	Toxic Substances Control Act

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

US CFR 1910.1200

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