

MICROBMONITOR[®] 2

SAFETY DATA SHEET

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)

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/50.
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 Suite 202, 130 South Indian River Drive Fort Pierce, Florida 34950 United States of America +1 (772) 365 1119 +1 (772) 882 3057 lance@karmarkgroup.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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Hazardous Products Regulations	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.
2.3 Other hazards	None.
2.4 Additional Information	None.

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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
Skin Contact
Eye Contact

Unlikely route of exposure.
Wash with plenty of water.
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.
Unlikely to be required but if necessary treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

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
Unsuitable extinguishing media

As appropriate for surrounding fire.
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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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.

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6.3 Methods and material for containment and cleaning up

Unused test kit
Used test kit

Cover with absorbent or contain. Collect and dispose. 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

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
Used test kit

Ideal storage temperature: 2 – 8 °C. 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 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: Regulation respecting occupational health and safety, Permissible Exposure Values for Airborne Contaminants, January 2022, Quebec, Canada.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection

Wear protective eye glasses for protection against liquid splashes.



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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

Physical state	Gel in a glass bottle.
Colour	Colourless – Yellow – Pink.
Odour	Odourless.
Melting point/freezing point	90°C
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Non-flammable.
Lower and upper explosion limit	Not applicable.
Flash Point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
pH	6.5
Kinematic Viscosity	Not applicable.
Solubility	Solubility (Water) : Miscible. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	No information available.
Vapour pressure	Not applicable.
Density and/or relative density	Not available.
Relative vapour density	Not applicable.
Particle characteristics	Not applicable.

9.2 Other information

None.

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.

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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.

Calculation method: Not classified.

Skin corrosion/irritation

Calculation method: Not classified.

Serious eye damage/irritation

Calculation method: Not classified.

Respiratory or skin sensitisation

It is not a skin sensitiser.

Germ cell mutagenicity

Calculation method: Not classified.

There is no evidence of mutagenic potential.

Carcinogenicity

Calculation method: Not classified.

No evidence of carcinogenicity.

Reproductive toxicity

Calculation method: Not classified.

No evidence of reproductive effects.

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.

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.

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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 has been classified in accordance with HPR and the SDS contains all the information required by HPR.

15.1 Canadian Regulations

Domestic Substances List (DSL)	7732-18-5, 73049-73-7, 9002-18-0
Export Control List	Not listed
Priority Substances List (PSL)	Not listed
Toxic Substances List	Not listed
National Pollutant Release Inventory (NPRI) Substance List	Not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 – 3, 8, 9, 11, 14 - 16

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity

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

Hazardous Products Regulations

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