

MICROBMONITOR²

SAFETY DATA SHEET

ACCORDING TO US CFR 1910.1200

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

1.1 Product identifier	
GHS Product Identifier	MicrobMonitor2.
Trade name	MicrobMonitor2.
Product Code	ECHA16/MM/01 (MM2-001), ECHA16/MM/02 (MM2-005), ECHA16/MM/50/NA (MM2-050NA), ECHA16/MM/50/WA (MM2-050WA)
CAS No.	Mixture.
EINECS No.	Mixture.
1.2 Recommended use of the chemical and restrictions on use	
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 Supplier's details	
Company Identification	ECHA Microbiology Ltd. Unit 22 & 23 Willowbrook Technology Park Llandogo Rd., CARDIFF CF3 0EF United Kingdom (UK).
Telephone	+44 (0)29 2036 5930
Fax	+44 (0)29 2036 1195
E-mail	sales@echamicrobiology.com
1.4 Emergency Phone No.	
Company	+44(0)7970 150682 & +44 (0)7908 743709

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
ACCORDING TO US CFR 1910.1200	Not classified as dangerous for supply/use.
2.2 Label elements	
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	No information available.

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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

3.1 Mixtures

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
Water	>97	7732-18-5	231-791-2	None
Tryptone	<0.5	73049-73-7	None assigned	None
Purified Agar	<0.3	9002-18-0	232-658-1	None

3.2 Additional Information

For full text of H/P statements see section 16.

4. 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 soap and 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.

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.

5. SECTION 5: FIRE-FIGHTING 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 product(s): Carbon monoxide, Carbon dioxide.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
 Chemical protection suit.

6. 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.

7. 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.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (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

8.2 Appropriate engineering controls

Ensure adequate ventilation.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection



Wear protective eye glasses for protection against liquid splashes.

Skin protection



Wear protective gloves.

Respiratory protection

Not normally required.



Thermal hazards

Not applicable.

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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Gel in a glass bottle.
	Color	Colourless - Yellow - Pink.
	Odor	Odourless.
	Odor Threshold (ppm)	Not established.
	pH (Value)	6.5
	Melting Point (°C)	90°C
	Boiling Point (°C)	Not available.
	Flash Point (°C)	Not applicable.
	Evaporation rate	Not applicable.
	Flammability	Non-flammable.
	Explosive limit ranges	Not applicable.
	Vapor Pressure (mm Hg)	Not applicable.
	Vapor Density (Air=1)	Not applicable.
	Density (g/ml)	Not available.
	Bulk Density (g/ml)	Not available.
	Solubility (Water)	Miscible.
	Solubility (Other)	No information available.
	Partition Coefficient (n-Octanol/water)	No information available.
	Auto Ignition Temperature (°C)	Not applicable.
	Decomposition Temperature (°C)	Not available.
	Viscosity (mPa.s)	Not applicable.
	Explosive properties	Not explosive.
	Oxidizing properties	Not oxidizing.
9.2	Other information	None.

10. 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 Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity	Low acute toxicity. Used test kit: May be harmful and cause infection due to the presence of micro-organisms growing in the gel.
	Irritation	Non-irritant.
	Corrosivity	Not classified.
	Sensitization	It is not a skin sensitizer.
	Repeated dose toxicity	None anticipated.
	Carcinogenicity	No evidence of carcinogenicity.
	Mutagenicity	There is no evidence of mutagenic potential.
	Toxicity for reproduction	Not classified.
11.2	Other information	None.

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12. 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.

13. 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.
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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.
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Incineration	Incineration may be carried out under controlled conditions provided local regulations for emissions are met by an authorised person / licensed waste contractor.
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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.
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14. SECTION 14: TRANSPORT INFORMATION

D.O.T. Classification

Not classified as dangerous for transport.

14.1	UN number	Not applicable.
14.2	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 MARPOL73/78 and the IBC Code	Not applicable.

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15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 USA OSHA

TSCA
 State Right to Know Lists
 Title III Consolidated List of Lists
 California Proposition 65

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

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Company logo

NFPA		HMIS	
Health	0	Health	0
Fire	0	Flammability	0
Instability	0	Physical hazards	0

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
OSHA	Occupational Safety and Health Administration
TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association
HMIS	Hazardous Material Information System

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