

MICROBMONITOR2[®]

SAFETY DATA SHEET

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

| | | |
|------------|--|--|
| 1.1 | Product identifier | |
| | 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 | |
| | Hazardous Products Regulations (HPR) | Not classified as dangerous for supply/use. |
| 2.2 | Label elements | |
| | Product identifier | MicrobMonitor2. |
| | Hazard Symbol | None. |
| | Risk Phrases | None. |
| | Safety Phrases | 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

Ingestion

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.

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.

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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. |
| 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. |

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 | Ideal storage temperature: 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 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 |

Source: Canada Occupational Health and Safety Regulations

- 8.2 **Appropriate engineering controls** Ensure adequate ventilation.

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| | |
|--|--|
| <p>8.3 Individual protection measures, such as personal protective equipment (PPE)</p> <p>Eye/face protection</p>  | <p>Wear protective eye glasses for protection against liquid splashes.</p> |
| <p>Skin protection</p>  | <p>Wear protective gloves.</p> |
| <p>Respiratory protection</p>  | <p>Not normally required.</p> |
| <p>Thermal hazards</p>  | <p>Not applicable.</p> |

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

10. SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| <p>10.1 Reactivity</p> | <p>Stable under normal conditions.</p> |
| <p>10.2 Chemical stability</p> | <p>Stable under normal conditions.</p> |
| <p>10.3 Possibility of hazardous reactions</p> | <p>No hazardous reactions known if used for its intended purpose.</p> |
| <p>10.4 Conditions to avoid</p> | <p>Keep away from direct sunlight.</p> |
| <p>10.5 Incompatible materials</p> | <p>No information available.</p> |
| <p>10.6 Hazardous Decomposition Product(s)</p> | <p>No hazardous decomposition products known.</p> |

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11. SECTION 11: TOXICOLOGICAL INFORMATION

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

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. |
| | 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. |
| | 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

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. |

15. 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 | Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 | Canada | |
| | WHMIS – Ingredient Disclosure List | All chemicals are not listed. |
| | Domestic Substances List (DSL) | All chemicals listed. |
| | List of Challenge Substances | All chemicals are not listed. |
| | Priority Substances List | All chemicals are not listed. |
| | Toxic Substances List | All chemicals are not listed. |
| | National Pollutant Release Inventory (NPRI) Substance Lists | All chemicals are not listed. |

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

| | |
|-------|--|
| LTEL | Long Term Exposure Limit |
| STEL | Short Term Exposure Limit |
| WHMIS | Workplace Hazardous Materials Information System |

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