



Fuel Quality Services, Inc.

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1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MicrobMonitor2® Test Kit

May 21, 2015

Company Identification:

Fuel Quality Services, Inc.
P.O. Box 1380, 4584 Cantrell Road
Flowery Branch, GA. 30542-0023
Telephone: 770-967-9790

TRANSPORTATION EMERGENCY

CALL PERS DOMESTIC: (800) 633-8253
INTERNATIONAL: (801) 629-0667
CUSTOMER ID# 9405

NON-TRANSPORTATION

Emergency Phone Numbers:
Poison Control Center: (800) 222-1222
Product Information Phone: (770) 967-9790

Recommended use of the chemical and restrictions on use

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.

2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture: According to US CFR 1910.1200 – Not classified as dangerous for supply or use.

Label Elements:

Hazard pictogram(s): None
Signal Word(s): None
Hazard Statement(s): None
Precautionary Statement(s): None

Other Hazards: None

Additional Information: No information available.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

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
Purified Agar	<0.3	9002-18-0	232-658-1	None
Tryptone	<0.5	73049-73-7	None Assigned	None

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

4 – FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: Unlikely route of exposure.

Skin contact: Wash with plenty of soap and 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.

Most important symptoms and effects, both acute and delayed: Unlikely to be required but if necessary treat symptomatically.

Indication of any immediate medical attention and special treatment needed: No special requirements.

Additional Information: Exposure to the content of used test kit: if symptoms occur obtain medical attention.

5 – FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: As appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the substance or mixture: This product may give rise to hazardous fumes in a fire.

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

6 – ACCIDENTAL RELEASE MEASURES

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

Personal precautions, protective equipment and emergency procedures: Caution-spillages may be slippery. Wear protective gloves.

Environmental Precautions: Avoid release to the environment.

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.

Reference to other sections: See also Section 8.

7 – HANDLING AND STORAGE

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.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool dark place. Keep away from direct sunlight.

Storage Temperature:

Unused Test Kit: Ideal storage temperature: 2-8 C (36 – 47 C)

Used Test Kit: Incubate at 25C (77 F) (or the temperature of the system being tested). If an incubator is not available; use a dark warm draught free cupboard at 25C (77 F).

Storage Life: Stable under normal conditions.

Incompatible Materials: No information available.

8 – EXPOSURE CONTROL / PERSONAL PROTECTION

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.
Purified Agar	9002-18-0	---	---	---	---	Not established.
Tryptone	73049-73-7	---	---	---	---	Not established.

Appropriate Engineering Controls: Ensure adequate ventilation.

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.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance	Gel in a glass bottle
Color	Colorless to yellow/pink
Odor	Odorless
Odor threshold	Not available
pH (value)	6.5
Melting point	194F (90C) (ASTM D127)
Boiling point	Not applicable
Flash Point (C)	Not applicable
Evaporation rate	Not available
Flammability	Non-flammable
Explosive limit ranges	Not applicable.
Vapor Pressure (mmHg)	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

Other Information: None

10 - STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical stability: Stable under normal conditions.

10.1 Possibility of hazardous reactions: No hazardous reactions known if used for its intended Purpose.

Conditions to avoid: Keep away from direct sunlight.

Incompatibilities: No information available.

Hazardous decomposition products: No hazardous decomposition products known.

11 - TOXICOLOGICAL INFORMATION

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
Sensitisation	It is not a skin sensitizer.
Repeated Dose Toxicity	None Anticipated
Germ cell mutagenicity	There is no evidence of mutagenic potential
Carcinogenicity	No evidence of carcinogenicity
Reproductive toxicity	Not classified
Other information	None

12 - ECOLOGICAL INFORMATION

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

13 - DISPOSAL CONSIDERATIONS

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 Micromonitor2 tests

Licensed Waste Contractor: Dispose of via an authorized person / licenses 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 authorized person / licensed waste contractor.

Non-sterile and used Microbmonitor2 tests

Disinfection followed by Licensed Waste Contractor: Sterilize the Microbmonitor2 kit by following manufacturer's instructions provided with the test kit. Dispose of via an authorized person / licensed waste contractor in accordance with local, state and 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 authorized person / licensed waste contractor.

14 - TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: Not Regulated.

LAND TRANSPORTATION ADR/RID: Not Regulated.

AIR TRANSPORT IATA / ICAO: Not Regulated.

MARITIME TRANSPORT IMDG: Not Regulated.

Not classified as hazardous for transport (ADR, RID, UN, IMO, IATA/ICAO).

15 – REGULATORY INFORMATION

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

USA

OSHA

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

TSCA

All chemicals are not listed.

State Right to Know Lists

Tryptone (CAS No. 73049-73-7): Pennsylvania

Title III Consolidated List of Lists

All ingredients are not listed.

California Proposition 65

All ingredients are not listed.

16 - OTHER INFORMATION

NEPA

HMIS

Health – 0

Health – 0

Fire – 0

Flammability – 0

Instability – 0

Physical Hazards – 0

Prepared by: ECHA Microbiology LTD

Reviewed by: Fuel Quality Services, Inc. / Debra Chesneau / January 29, 2018

Notice: This information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.