

# SAFETY DATA SHEET



## MycoSensor QPCR Assay Kit

### Section 1. Identification

#### 1.1 Product identifier

<b>Product name</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Assay Kit	
<b>Part no. (chemical kit)</b>	: 302106	
<b>Part no.</b>	: <u>Mycosensor QPCR Assay Kit</u>	302106-5
	2X MycoSensor QPCR Master Mix	302106-51
	MycoSensor Primer Mix	302106-55
	Amplification Control	302106-54
	M. orale Positive Control	302106-52
	A. laidlawii Positive Control	302106-53
	Reference Dye	600530-53
	<u>DNA Purification Kit For The MycoSensor QPCR Assay kit</u>	<u>302106-1</u>
	DNA-Binding Solution	400771-13
	Wash Buffer (5X)	400771-16
<b>Validation date</b>	: 10/28/2024	

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	: <input checked="" type="checkbox"/> Analytical reagent.	
	<input checked="" type="checkbox"/> 2X MycoSensor QPCR Master Mix	2 x 1.25 ml
	MycoSensor Primer Mix	0.1 ml
	Amplification Control	0.1 ml
	M. orale Positive Control	0.125 ml
	A. laidlawii Positive Control	0.125 ml
	Reference Dye	0.1 ml (100 µl 1 mM)
	DNA-Binding Solution	5 ml
	Wash Buffer (5X)	10 ml

#### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
 5301 Stevens Creek Blvd  
 Santa Clara, CA 95051, USA  
 800-227-9770

#### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b>	: 2X MycoSensor QPCR Master Mix	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	MycoSensor Primer Mix	
	Amplification Control	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

## Section 2. Hazards identification

M. orale Positive Control	and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
A. laidlawii Positive Control	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Reference Dye	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
DNA-Binding Solution	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Wash Buffer (5X)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

#### **2X MycoSensor QPCR Master**

##### **Mix**

H320

EYE IRRITATION - Category 2B

#### **DNA-Binding Solution**

H302

ACUTE TOXICITY (oral) - Category 4

H314

SKIN CORROSION - Category 1C

H318

SERIOUS EYE DAMAGE - Category 1

H412

AQUATIC HAZARD (LONG-TERM) - Category 3

### 2.2 GHS label elements

#### **Hazard pictograms**

: DNA-Binding Solution



#### **Signal word**

: 2X MycoSensor QPCR Master Mix	Warning
MycoSensor Primer Mix	No signal word.
Amplification Control	No signal word.
M. orale Positive Control	No signal word.
A. laidlawii Positive Control	No signal word.
Reference Dye	No signal word.
DNA-Binding Solution	Danger
Wash Buffer (5X)	No signal word.

## Section 2. Hazards identification

<b>Hazard statements</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix H320 - Causes eye irritation. MycoSensor Primer Mix No known significant effects or critical hazards. Amplification Control No known significant effects or critical hazards. M. orale Positive Control No known significant effects or critical hazards. A. laidlawii Positive Control No known significant effects or critical hazards. Reference Dye No known significant effects or critical hazards. DNA-Binding Solution H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H412 - Harmful to aquatic life with long lasting effects.  Wash Buffer (5X) No known significant effects or critical hazards.
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### Precautionary statements

<b>Prevention</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix Not applicable. MycoSensor Primer Mix Not applicable. Amplification Control Not applicable. M. orale Positive Control Not applicable. A. laidlawii Positive Control Not applicable. Reference Dye Not applicable. DNA-Binding Solution P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.  Wash Buffer (5X) Not applicable.
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<b>Response</b>	: 2X MycoSensor QPCR Master Mix P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P363 - Wash contaminated clothing before reuse. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  Wash Buffer (5X) Not applicable.
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<b>Storage</b>	: 2X MycoSensor QPCR Master Mix Not applicable. MycoSensor Primer Mix Not applicable. Amplification Control Not applicable. M. orale Positive Control Not applicable. A. laidlawii Positive Control Not applicable. Reference Dye Not applicable. DNA-Binding Solution Not applicable.
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## Section 2. Hazards identification

<b>Disposal</b>	Wash Buffer (5X)	Not applicable.	
	: 2X MycoSensor QPCR Master Mix	Not applicable.	
	MycoSensor Primer Mix	Not applicable.	
	Amplification Control	Not applicable.	
	M. orale Positive Control	Not applicable.	
	A. laidlawii Positive Control	Not applicable.	
	Reference Dye	Not applicable.	
<b>Supplemental label elements</b>	DNA-Binding Solution	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
	Wash Buffer (5X)	Not applicable.	
	: 2X MycoSensor QPCR Master Mix	None known.	
	MycoSensor Primer Mix	None known.	
	Amplification Control	None known.	
	M. orale Positive Control	None known.	
	A. laidlawii Positive Control	None known.	
<b>2.3 Other hazards</b>	Reference Dye	None known.	
	DNA-Binding Solution	Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.	
	Wash Buffer (5X)	None known.	
	<b>Hazards not otherwise classified</b>	: 2X MycoSensor QPCR Master Mix	None known.
	MycoSensor Primer Mix	None known.	
	Amplification Control	None known.	
	M. orale Positive Control	None known.	
A. laidlawii Positive Control	None known.		
<b>2.3 Other hazards</b>	Reference Dye	None known.	
	DNA-Binding Solution	Causes respiratory tract burns. Causes digestive tract burns.	
	Wash Buffer (5X)	None known.	

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: 2X MycoSensor QPCR Master Mix	Mixture
	MycoSensor Primer Mix	Mixture
	Amplification Control	Mixture
	M. orale Positive Control	Mixture
	A. laidlawii Positive Control	Mixture
	Reference Dye	Mixture
	DNA-Binding Solution	Mixture
	Wash Buffer (5X)	Mixture

Ingredient name	%	CAS number
<b>2X MycoSensor QPCR Master Mix</b>		
Glycerol	≥10 - ≤25	56-81-5
<b>Reference Dye</b>		
Potassium chloride	≤5	7447-40-7
<b>DNA-Binding Solution</b>		
Guanidinium thiocyanate	≥25 - ≤50	593-84-0

## Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	MycoSensor Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Amplification Control	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	M. orale Positive Control	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	A. laidlawii Positive Control	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Reference Dye	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	DNA-Binding Solution	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	Wash Buffer (5X)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	MycoSensor Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

## Section 4. First aid measures

Amplification Control	attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
M. orale Positive Control	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
A. laidlawii Positive Control	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
DNA-Binding Solution	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Wash Buffer (5X)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	
: 2X MycoSensor QPCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
MycoSensor Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Amplification Control	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
M. orale Positive Control	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
A. laidlawii Positive Control	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
DNA-Binding Solution	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with

## Section 4. First aid measures

### Ingestion

Wash Buffer (5X)

plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

: 2X MycoSensor QPCR Master Mix

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MycoSensor Primer Mix

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Amplification Control

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

M. orale Positive Control

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

A. laidlawii Positive Control

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Reference Dye

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

DNA-Binding Solution

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be

## Section 4. First aid measures

dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash Buffer (5X)

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye damage. No known significant effects or critical hazards.
<b>Inhalation</b>	: <del>2X</del> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the respiratory system. No known significant effects or critical hazards.
<b>Skin contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns. No known significant effects or critical hazards.
<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution  Wash Buffer (5X)	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

## Section 4. First aid measures

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix	Adverse symptoms may include the following: irritation watering redness
	MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain watering redness
<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Skin contact</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: stomach pains
	Wash Buffer (5X)	No specific data.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: 2X MycoSensor QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	MycoSensor Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Amplification Control	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	M. orale Positive Control	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	A. laidlawii Positive Control	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

specialist immediately if large quantities have been ingested or inhaled.

Reference Dye  
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

DNA-Binding Solution  
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Wash Buffer (5X)  
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Specific treatments

: 2X MycoSensor QPCR Master Mix No specific treatment.  
MycoSensor Primer Mix No specific treatment.  
Amplification Control No specific treatment.  
M. orale Positive Control No specific treatment.  
A. laidlawii Positive Control No specific treatment.  
Reference Dye No specific treatment.  
DNA-Binding Solution No specific treatment.  
Wash Buffer (5X) No specific treatment.

### Protection of first-aiders

: 2X MycoSensor QPCR Master Mix No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

MycoSensor Primer Mix No action shall be taken involving any personal risk or without suitable training.

Amplification Control No action shall be taken involving any personal risk or without suitable training.

M. orale Positive Control No action shall be taken involving any personal risk or without suitable training.

A. laidlawii Positive Control No action shall be taken involving any personal risk or without suitable training.

Reference Dye No action shall be taken involving any personal risk or without suitable training.

DNA-Binding Solution No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash Buffer (5X) Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

: 2X MycoSensor QPCR Master Mix Use an extinguishing agent suitable for the surrounding fire.

MycoSensor Primer Mix Use an extinguishing agent suitable for the surrounding fire.

Amplification Control Use an extinguishing agent suitable for the surrounding fire.

M. orale Positive Control Use an extinguishing agent suitable for the surrounding fire.

## Section 5. Fire-fighting measures

	A. laidlawii Positive Control	Use an extinguishing agent suitable for the surrounding fire.
	Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
	DNA-Binding Solution	Use an extinguishing agent suitable for the surrounding fire.
	Wash Buffer (5X)	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: 2X MycoSensor QPCR Master Mix	None known.
	MycoSensor Primer Mix	None known.
	Amplification Control	None known.
	M. orale Positive Control	None known.
	A. laidlawii Positive Control	None known.
	Reference Dye	None known.
	DNA-Binding Solution	None known.
	Wash Buffer (5X)	None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: 2X MycoSensor QPCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	MycoSensor Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Amplification Control	In a fire or if heated, a pressure increase will occur and the container may burst.
	M. orale Positive Control	In a fire or if heated, a pressure increase will occur and the container may burst.
	A. laidlawii Positive Control	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA-Binding Solution	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Wash Buffer (5X)	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: 2X MycoSensor QPCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	M. orale Positive Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	DNA-Binding Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

## Section 5. Fire-fighting measures

sulfur oxides  
halogenated compounds  
No specific data.

Wash Buffer (5X)

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

: 2X MycoSensor QPCR Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
MycoSensor Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Amplification Control	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
M. orale Positive Control	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
A. laidlawii Positive Control	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Reference Dye	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
DNA-Binding Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Wash Buffer (5X)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

: 2X MycoSensor QPCR Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
MycoSensor Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Amplification Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
M. orale Positive Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
A. laidlawii Positive Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Reference Dye	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

## Section 5. Fire-fighting measures

DNA-Binding Solution	(SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Wash Buffer (5X)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 2X MycoSensor QPCR Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	MycoSensor Primer Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Amplification Control	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	M. orale Positive Control	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	A. laidlawii Positive Control	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	DNA-Binding Solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when

## Section 6. Accidental release measures

	Wash Buffer (5X)	ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: 2X MycoSensor QPCR Master Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	MycoSensor Primer Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Amplification Control	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	M. orale Positive Control	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	A. laidlawii Positive Control	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Reference Dye	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	DNA-Binding Solution	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Wash Buffer (5X)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	: 2X MycoSensor QPCR Master Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	MycoSensor Primer Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Amplification Control	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	M. orale Positive Control	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

## Section 6. Accidental release measures

A. laidlawii Positive Control	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Reference Dye	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
DNA-Binding Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Wash Buffer (5X)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	: 2X MycoSensor QPCR Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
MycoSensor Primer Mix		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Amplification Control		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
M. orale Positive Control		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
A. laidlawii Positive Control		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Reference Dye		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

## Section 6. Accidental release measures

DNA-Binding Solution	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Wash Buffer (5X)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: 2X MycoSensor QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	MycoSensor Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	Amplification Control	Put on appropriate personal protective equipment (see Section 8).
	M. orale Positive Control	Put on appropriate personal protective equipment (see Section 8).
	A. laidlawii Positive Control	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
	DNA-Binding Solution	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Wash Buffer (5X)	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: 2X MycoSensor QPCR Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	MycoSensor Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

## Section 7. Handling and storage

Amplification Control	before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
M. orale Positive Control	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
A. laidlawii Positive Control	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Reference Dye	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
DNA-Binding Solution	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Wash Buffer (5X)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

: 2X MycoSensor QPCR Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
MycoSensor Primer Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a

## Section 7. Handling and storage

Amplification Control	<p>dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> <p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
M. orale Positive Control	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
A. laidlawii Positive Control	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Reference Dye	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
DNA-Binding Solution	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed</p>

## Section 7. Handling and storage

Wash Buffer (5X)

and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

2X MycoSensor QPCR Master Mix	Industrial applications, Professional applications.
MycoSensor Primer Mix	Industrial applications, Professional applications.
Amplification Control	Industrial applications, Professional applications.
M. orale Positive Control	Industrial applications, Professional applications.
A. laidlawii Positive Control	Industrial applications, Professional applications.
Reference Dye	Industrial applications, Professional applications.
DNA-Binding Solution	Industrial applications, Professional applications.
Wash Buffer (5X)	Industrial applications, Professional applications.

#### Industrial sector specific solutions

2X MycoSensor QPCR Master Mix	Not available.
MycoSensor Primer Mix	Not available.
Amplification Control	Not available.
M. orale Positive Control	Not available.
A. laidlawii Positive Control	Not available.
Reference Dye	Not available.
DNA-Binding Solution	Not available.
Wash Buffer (5X)	Not available.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>CAL OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
<b>Reference Dye</b> Potassium chloride	None.

## Section 8. Exposure controls/personal protection

**DNA-Binding Solution**  
Guanidinium thiocyanate

None.

### Biological exposure indices

No exposure indices known.

### 8.2 Exposure controls

#### **Appropriate engineering controls**

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

#### **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Other skin protection**

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

## Section 9. Physical and chemical properties and safety characteristics

<b>Physical state</b>	:	2X MycoSensor QPCR Master Mix	Liquid.
		MycoSensor Primer Mix	Liquid.
		Amplification Control	Liquid.
		M. orale Positive Control	Liquid.
		A. laidlawii Positive Control	Liquid.
		Reference Dye	Liquid.
		DNA-Binding Solution	Liquid.
		Wash Buffer (5X)	Liquid.
<b>Color</b>	:	2X MycoSensor QPCR Master Mix	Not available.
		MycoSensor Primer Mix	Not available.
		Amplification Control	Not available.
		M. orale Positive Control	Not available.
		A. laidlawii Positive Control	Not available.
		Reference Dye	Not available.
		DNA-Binding Solution	Not available.
		Wash Buffer (5X)	Not available.
<b>Odor</b>	:	2X MycoSensor QPCR Master Mix	Not available.
		MycoSensor Primer Mix	Not available.
		Amplification Control	Not available.
		M. orale Positive Control	Not available.
		A. laidlawii Positive Control	Not available.
		Reference Dye	Not available.
		DNA-Binding Solution	Not available.
		Wash Buffer (5X)	Not available.
<b>Odor threshold</b>	:	2X MycoSensor QPCR Master Mix	Not available.
		MycoSensor Primer Mix	Not available.
		Amplification Control	Not available.
		M. orale Positive Control	Not available.
		A. laidlawii Positive Control	Not available.
		Reference Dye	Not available.
		DNA-Binding Solution	Not available.
		Wash Buffer (5X)	Not available.
<b>pH</b>	:	2X MycoSensor QPCR Master Mix	8
		MycoSensor Primer Mix	7.5
		Amplification Control	7.5
		M. orale Positive Control	8
		A. laidlawii Positive Control	8
		Reference Dye	8
		DNA-Binding Solution	6.4
		Wash Buffer (5X)	6.4
<b>Melting point/freezing point</b>	:	2X MycoSensor QPCR Master Mix	Not available.
		MycoSensor Primer Mix	0°C (32°F)
		Amplification Control	0°C (32°F)
		M. orale Positive Control	0°C (32°F)
		A. laidlawii Positive Control	0°C (32°F)
		Reference Dye	Not available.
		DNA-Binding Solution	Not available.
		Wash Buffer (5X)	0°C (32°F)
<b>Boiling point, initial boiling point, and boiling range</b>	:	2X MycoSensor QPCR Master Mix	Not available.
		MycoSensor Primer Mix	100°C (212°F)
		Amplification Control	100°C (212°F)
		M. orale Positive Control	100°C (212°F)
		A. laidlawii Positive Control	100°C (212°F)
		Reference Dye	Not available.
		DNA-Binding Solution	Not available.
		Wash Buffer (5X)	100°C (212°F)
<b>Flash point</b>	:		

## Section 9. Physical and chemical properties and safety characteristics

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>2X MycoSensor QPCR Master Mix</b>						
Glycerol	-	-	-	177	350.6	-

**Evaporation rate** : 2X MycoSensor QPCR Master Mix Not available.  
 MycoSensor Primer Mix Not available.  
 Amplification Control Not available.  
 M. orale Positive Control Not available.  
 A. laidlawii Positive Control Not available.  
 Reference Dye Not available.  
 DNA-Binding Solution Not available.  
 Wash Buffer (5X) Not available.

**Flammability** : 2X MycoSensor QPCR Master Mix Not applicable.  
 MycoSensor Primer Mix Not applicable.  
 Amplification Control Not applicable.  
 M. orale Positive Control Not applicable.  
 A. laidlawii Positive Control Not applicable.  
 Reference Dye Not applicable.  
 DNA-Binding Solution Not applicable.  
 Wash Buffer (5X) Not applicable.

**Lower and upper explosion limit/flammability limit** : 2X MycoSensor QPCR Master Mix Not available.  
 MycoSensor Primer Mix Not available.  
 Amplification Control Not available.  
 M. orale Positive Control Not available.  
 A. laidlawii Positive Control Not available.  
 Reference Dye Not available.  
 DNA-Binding Solution Not available.  
 Wash Buffer (5X) Not available.

**Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>2X MycoSensor QPCR Master Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>MycoSensor Primer Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>Amplification Control</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>M. orale Positive Control</b>						
water	17.5	2.3	-	92.258	12.3	-

## Section 9. Physical and chemical properties and safety characteristics

<b>A. laidlawii Positive Control</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Reference Dye</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>DNA-Binding Solution</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Wash Buffer (5X)</b>							
water	17.5	2.3	-	92.258	12.3	-	

**Relative vapor density** : 2X MycoSensor QPCR Master Mix Not available.  
 MycoSensor Primer Mix Not available.  
 Amplification Control Not available.  
 M. orale Positive Control Not available.  
 A. laidlawii Positive Control Not available.  
 Reference Dye Not available.  
 DNA-Binding Solution Not available.  
 Wash Buffer (5X) Not available.

**Relative density** : 2X MycoSensor QPCR Master Mix Not available.  
 MycoSensor Primer Mix Not available.  
 Amplification Control Not available.  
 M. orale Positive Control Not available.  
 A. laidlawii Positive Control Not available.  
 Reference Dye Not available.  
 DNA-Binding Solution Not available.  
 Wash Buffer (5X) Not available.

<b>Media</b>	<b>Result</b>
<b>2X MycoSensor QPCR Master Mix</b>	
water	Soluble
<b>MycoSensor Primer Mix</b>	
water	Soluble
<b>Amplification Control</b>	
water	Soluble
<b>M. orale Positive Control</b>	
water	Soluble
<b>A. laidlawii Positive Control</b>	
water	Soluble
<b>Reference Dye</b>	
water	Soluble
<b>DNA-Binding Solution</b>	
water	Soluble
<b>Wash Buffer (5X)</b>	
water	Soluble

## Section 9. Physical and chemical properties and safety characteristics

<b>Partition coefficient: n-octanol/water</b>	2X MycoSensor QPCR Master Mix	Not applicable.
	MycoSensor Primer Mix	Not applicable.
	Amplification Control	Not applicable.
	M. orale Positive Control	Not applicable.
	A. laidlawii Positive Control	Not applicable.
	Reference Dye	Not applicable.
	DNA-Binding Solution	Not applicable.
	Wash Buffer (5X)	Not applicable.

<b>Auto-ignition temperature</b>	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	<b>2X MycoSensor QPCR Master Mix</b>			
	Glycerol	370	698	-

<b>Decomposition temperature</b>	2X MycoSensor QPCR Master Mix	Not available.
	MycoSensor Primer Mix	Not available.
	Amplification Control	Not available.
	M. orale Positive Control	Not available.
	A. laidlawii Positive Control	Not available.
	Reference Dye	Not available.
	DNA-Binding Solution	Not available.
	Wash Buffer (5X)	Not available.

<b>Viscosity</b>	2X MycoSensor QPCR Master Mix	Not available.
	MycoSensor Primer Mix	Not available.
	Amplification Control	Not available.
	M. orale Positive Control	Not available.
	A. laidlawii Positive Control	Not available.
	Reference Dye	Not available.
	DNA-Binding Solution	Not available.
	Wash Buffer (5X)	Not available.

### Particle characteristics

<b>Median particle size</b>	2X MycoSensor QPCR Master Mix	Not applicable.
	MycoSensor Primer Mix	Not applicable.
	Amplification Control	Not applicable.
	M. orale Positive Control	Not applicable.
	A. laidlawii Positive Control	Not applicable.
	Reference Dye	Not applicable.
	DNA-Binding Solution	Not applicable.
	Wash Buffer (5X)	Not applicable.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	2X MycoSensor QPCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	MycoSensor Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
	Amplification Control	No specific test data related to reactivity available for this product or its ingredients.
	M. orale Positive Control	No specific test data related to reactivity available for this product or its ingredients.
	A. laidlawii Positive Control	No specific test data related to reactivity available for this product or its ingredients.
	Reference Dye	No specific test data related to reactivity available for this product or its ingredients.
	DNA-Binding Solution	No specific test data related to reactivity available for this product or its ingredients.
	Wash Buffer (5X)	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

<b>10.2 Chemical stability</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

## Section 10. Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	: 2X MycoSensor QPCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	MycoSensor Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Amplification Control	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	M. orale Positive Control	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	A. laidlawii Positive Control	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA-Binding Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Wash Buffer (5X)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Reference Dye</b> Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	LC50 Inhalation Dusts and mists LD50 Oral	Rat - Female Rat - Male, Female	3.181 mg/l 593 mg/kg	4 hours -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Reference Dye</b> Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitization

Not available.

#### Mutagenicity

## Section 11. Toxicological information

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on the likely routes of exposure</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Not available. Not available. Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available.
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### Potential acute health effects

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye damage. No known significant effects or critical hazards.
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<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the respiratory system. No known significant effects or critical hazards.
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<b>Skin contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye DNA-Binding Solution Wash Buffer (5X)	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns. No known significant effects or critical hazards.
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## Section 11. Toxicological information

<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix	No known significant effects or critical hazards.
	MycoSensor Primer Mix	No known significant effects or critical hazards.
	Amplification Control	No known significant effects or critical hazards.
	M. orale Positive Control	No known significant effects or critical hazards.
	A. laidlawii Positive Control	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	DNA-Binding Solution	May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
	Wash Buffer (5X)	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix	Adverse symptoms may include the following: irritation watering redness
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	M. orale Positive Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	Reference Dye	No specific data.
	DNA-Binding Solution	Adverse symptoms may include the following: pain watering redness
	Wash Buffer (5X)	No specific data.

  

<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	M. orale Positive Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	Reference Dye	No specific data.
	DNA-Binding Solution	Adverse symptoms may include the following: respiratory tract irritation coughing
	Wash Buffer (5X)	No specific data.

  

<b>Skin contact</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	M. orale Positive Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	Reference Dye	No specific data.
	DNA-Binding Solution	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Wash Buffer (5X)	No specific data.

  

<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	M. orale Positive Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	Reference Dye	No specific data.
	DNA-Binding Solution	Adverse symptoms may include the following: stomach pains
	Wash Buffer (5X)	No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**General** : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.  
 MycoSensor Primer Mix No known significant effects or critical hazards.  
 Amplification Control No known significant effects or critical hazards.  
 M. orale Positive Control No known significant effects or critical hazards.  
 A. laidlawii Positive Control No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.  
 DNA-Binding Solution No known significant effects or critical hazards.  
 Wash Buffer (5X) No known significant effects or critical hazards.

**Carcinogenicity** : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.  
 MycoSensor Primer Mix No known significant effects or critical hazards.  
 Amplification Control No known significant effects or critical hazards.  
 M. orale Positive Control No known significant effects or critical hazards.  
 A. laidlawii Positive Control No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.  
 DNA-Binding Solution No known significant effects or critical hazards.  
 Wash Buffer (5X) No known significant effects or critical hazards.

**Mutagenicity** : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.  
 MycoSensor Primer Mix No known significant effects or critical hazards.  
 Amplification Control No known significant effects or critical hazards.  
 M. orale Positive Control No known significant effects or critical hazards.  
 A. laidlawii Positive Control No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.  
 DNA-Binding Solution No known significant effects or critical hazards.  
 Wash Buffer (5X) No known significant effects or critical hazards.

**Reproductive toxicity** : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.  
 MycoSensor Primer Mix No known significant effects or critical hazards.  
 Amplification Control No known significant effects or critical hazards.  
 M. orale Positive Control No known significant effects or critical hazards.  
 A. laidlawii Positive Control No known significant effects or critical hazards.  
 Reference Dye No known significant effects or critical hazards.  
 DNA-Binding Solution No known significant effects or critical hazards.  
 Wash Buffer (5X) No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
2X MycoSensor QPCR Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
Reference Dye Reference Dye Potassium chloride	70270.3 2600	N/A N/A	N/A N/A	N/A N/A	N/A N/A

## Section 11. Toxicological information

<b>DNA-Binding Solution</b>					
DNA-Binding Solution	1253.7	2325.6	N/A	N/A	6.7
Guanidinium thiocyanate	593	1100	N/A	N/A	3.181

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Reference Dye</b> Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - <i>Navicula seminulum</i>	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - <i>Pseudosida ramosa</i> - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - <i>Danio rerio</i>	96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	46 % - Inherent - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Reference Dye</b> Potassium chloride	-	-	Readily
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	-	-	Inherent

### 12.3 Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	-1.76	-	Low
<b>Reference Dye</b> Potassium chloride	-0.46	-	Low
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	<-1.7	-	Low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
<b>UN number</b>	UN1760	UN1760	UN1760	UN1760	UN1760
<b>UN proper shipping name</b>	Corrosive liquids, n.o.s. (Guanidinium thiocyanate)	CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate)	LIQUIDO CORROSIVO, N. E.P. (Guanidinium thiocyanate)	CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate)	Corrosive liquid, n.o.s. (Guanidinium thiocyanate)

## Section 14. Transport information

Transport hazard class(es)	8 	8 	8 	8 	8 
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	No.

### Additional information

- DOT Classification** :  **Limited quantity** Yes.  
**Packaging instruction** Exceptions: 154. Non-bulk: 203. Bulk: 241.  
**Quantity limitation** Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.  
**Special provisions** IB3, T7, TP1, TP28
- TDG Classification** :  Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).  
**Explosive Limit and Limited Quantity Index** 5  
**Passenger Carrying Road or Rail Index** 5  
**Special provisions** 16
- IMDG** :  **Emergency schedules** F-A, S-B  
**Special provisions** 223, 274
- IATA** :  **Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.  
**Special provisions** A3, A803
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

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

- U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 Clean Water Act (CWA) 311: EDTA

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

### SARA 302/304

#### Composition/information on ingredients

## Section 15. Regulatory information

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification**

<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</li> <li>MycoSensor Primer Mix</li> <li>Amplification Control</li> <li>M. orale Positive Control</li> <li>A. laidlawii Positive Control</li> <li>Reference Dye</li> <li>DNA-Binding Solution</li> </ul>	<ul style="list-style-type: none"> <li>EYE IRRITATION - Category 2B</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>ACUTE TOXICITY (oral) - Category 4</li> <li>SKIN CORROSION - Category 1C</li> <li>SERIOUS EYE DAMAGE - Category 1</li> <li>HNOC - Corrosive to digestive tract</li> <li>HNOC - Corrosive to respiratory tract</li> <li>Not applicable.</li> </ul>
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Wash Buffer (5X)

**Composition/information on ingredients**

Name	%	Classification
<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix		
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B
Dimethyl sulfoxide	≤10	FLAMMABLE LIQUIDS - Category 4
<b>Reference Dye</b>		
Potassium chloride	≤5	EYE IRRITATION - Category 2B
<b>DNA-Binding Solution</b>		
Guanidinium thiocyanate	≥25 - ≤50	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract

**State regulations**

**Massachusetts**

: The following components are listed: GLYCERINE MIST

**New York**

: None of the components are listed.

**New Jersey**

:  The following components are listed: GLYCERIN; DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-

**Pennsylvania**

: The following components are listed: 1,2,3-PROPANETRIOL

**California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

## Section 15. Regulatory information

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> <b>MycoSensor QPCR Master Mix</b> EYE IRRITATION - Category 2B	Calculation method
<b>DNA-Binding Solution</b> ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1C	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

### History

**Date of issue/Date of revision** : 10/28/2024

**Date of previous issue** : 10/08/2021

**Version** : 6

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 UN = United Nations

Indicates information that has changed from previously issued version.

### Notice to reader

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