

# SAFETY DATA SHEET



MycoSensor QPCR Assay Kit, Part Number 302107

## Section 1. Identification

<b>Product identifier</b>	: MycoSensor QPCR Assay Kit, Part Number 302107	
<b>Part no. (chemical kit)</b>	: 302107	
<b>Part no.</b>	: <input checked="" type="checkbox"/> 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
	Wash Buffer (5X)	400771-16
	DNA-Binding Solution	400771-13

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

<b>Material uses</b>	: Analytical reagent.	
	<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	1.25 ml
	MycoSensor Primer Mix	0.1 ml (100 µl)
	Amplification Control	0.1 ml (100 µl)
	M. orale Positive Control	0.125 ml (125 µl)
	A. laidlawii Positive Control	0.125 ml (125 µl)
	Reference Dye	0.1 ml (100 µl 1 mM)
	Wash Buffer (5X)	10 ml
	DNA-Binding Solution	5 ml

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

#### DNA-Binding Solution

H302	ACUTE TOXICITY (oral) - Category 4	
H332	ACUTE TOXICITY (inhalation) - Category 4	
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
	<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
	Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	DNA-Binding Solution	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%

## Section 2. Hazard(s) identification

<p><input checked="" type="checkbox"/> Reference Dye</p> <p>DNA-Binding Solution</p>	<p>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.4%</p> <p>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%</p>
--	---

### GHS label elements

#### Hazard pictograms

:  DNA-Binding Solution



#### Signal word

<p>: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</p> <p>MycoSensor Primer Mix Amplification Control</p> <p>M. orale Positive Control</p> <p>A. laidlawii Positive Control</p> <p>Reference Dye</p> <p>Wash Buffer (5X)</p> <p>DNA-Binding Solution</p>	<p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>No signal word.</p> <p>WARNING</p>
---	--

#### Hazard statements

<p>: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</p> <p>MycoSensor Primer Mix Amplification Control</p> <p>M. orale Positive Control</p> <p>A. laidlawii Positive Control</p> <p>Reference Dye</p> <p>Wash Buffer (5X)</p> <p>DNA-Binding Solution</p>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>H302 + H332 - Harmful if swallowed or if inhaled.</p> <p>H412 - Harmful to aquatic life with long lasting effects.</p>
---	---

### Precautionary statements

#### Prevention

<p>: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</p> <p>MycoSensor Primer Mix Amplification Control</p> <p>M. orale Positive Control</p> <p>A. laidlawii Positive Control</p> <p>Reference Dye</p> <p>Wash Buffer (5X)</p> <p>DNA-Binding Solution</p>	<p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P273 - Avoid release to the environment.</p> <p>P261 - Avoid breathing vapour.</p> <p>P270 - Do not eat, drink or smoke when using this product.</p> <p>P264 - Wash hands thoroughly after handling.</p>
---	---

#### Response

<p>: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</p> <p>MycoSensor Primer Mix Amplification Control</p> <p>M. orale Positive Control</p> <p>A. laidlawii Positive Control</p> <p>Reference Dye</p> <p>Wash Buffer (5X)</p> <p>DNA-Binding Solution</p>	<p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</p> <p>P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.</p>
---	---

## Section 2. Hazard(s) identification

<b>Storage</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>		
<b>Additional warning phrases</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Other hazards which do not result in classification</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	None known. None known. None known. None known. None known. None known. None known. None known.

## Section 3. Composition and ingredient information

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

### CAS number/other identifiers

## Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix		
Glycerol	≥10 - ≤30	56-81-5
Dimethyl sulfoxide	≤10	67-68-5
<b>DNA-Binding Solution</b>		
Guanidinium thiocyanate	≥30 - <55	593-84-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: <input checked="" type="checkbox"/> 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. Get medical attention if irritation occurs.
	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.
	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.
	DNA-Binding Solution	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. Get medical attention if irritation occurs.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	MycoSensor Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Amplification Control	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

## Section 4. First aid measures

Reference Dye	position comfortable for breathing. Get medical attention if symptoms occur.
Wash Buffer (5X)	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	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. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. 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.

**Skin contact**

:  MycoSensor QPCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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.
Wash Buffer (5X)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
DNA-Binding Solution	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.

**Ingestion**

:  MycoSensor QPCR Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
MycoSensor Primer Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for

## Section 4. First aid measures

	breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 necessary, call a poison center or 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.

[Most important symptoms/effects, acute and delayed](#)

[Potential acute health effects](#)



## Section 4. First aid measures

<b>Eye contact</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if inhaled.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if swallowed.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

## Section 4. First aid measures

<b>Skin contact</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

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

<b>Notes to physician</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix  MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control  Reference Dye  Wash Buffer (5X)  DNA-Binding Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
<b>Specific treatments</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.



## Section 4. First aid measures

<b>Protection of first-aiders</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control  Reference Dye  Wash Buffer (5X)  DNA-Binding Solution	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. 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.
-----------------------------------	--	--

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media



<b>Suitable extinguishing media</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control  Reference Dye  Wash Buffer (5X)  DNA-Binding Solution	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
-------------------------------------	--	---

<b>Unsuitable extinguishing media</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	None known. None known. None known. None known. None known. None known. None known. None known.
---------------------------------------	--	--

### Specific hazards arising from the chemical

: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
---	---

## Section 5. Firefighting measures

	Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.
	Wash Buffer (5X)	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.
<b>Hazardous thermal decomposition products</b>	:  MycoSensor QPCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye	No specific data. No specific data. No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	Wash Buffer (5X) DNA-Binding Solution	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds
<b>Special protective actions for fire-fighters</b>	:  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.
	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.

## Section 5. Firefighting measures

	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.
<b>Special protective equipment for fire-fighters</b>	: <input checked="" type="checkbox"/> 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 (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.
	DNA-Binding Solution	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

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: <input checked="" type="checkbox"/> 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 spilt material. 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 spilt 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 spilt 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 spilt material. Put on appropriate personal

## Section 6. Accidental release measures

A. laidlawii Positive Control	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 spilt 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 spilt material. Put on appropriate personal protective equipment.
Wash Buffer (5X)	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 spilt 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b> : <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	If specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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".

## Section 6. Accidental release measures

<b>Environmental precautions</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	Avoid dispersal of spilt 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 spilt 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 spilt 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 spilt 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).
	A. laidlawii Positive Control	Avoid dispersal of spilt 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 spilt 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).
	Wash Buffer (5X)	Avoid dispersal of spilt 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 spilt 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.

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: <input checked="" type="checkbox"/> 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.

## Section 6. Accidental release measures

	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 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.
DNA-Binding Solution	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

### Precautions for safe handling

#### Protective measures

<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
<input checked="" type="checkbox"/> 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).
Wash Buffer (5X)	Put on appropriate personal protective equipment (see Section 8).
DNA-Binding Solution	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

#### Advice on general occupational hygiene

<input checked="" type="checkbox"/> 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.
--	---



## Section 7. Handling and storage

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 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.
Amplification 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.
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.
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.
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.

**Conditions for safe storage, including any incompatibilities** :  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 unlabelled 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

## Section 7. Handling and storage

Amplification Control	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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
M. orale Positive Control	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
A. laidlawii Positive Control	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Reference Dye	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Wash Buffer (5X)	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

## Section 7. Handling and storage

DNA-Binding Solution

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<p><input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</p> <p>Glycerol</p> <p>Dimethyl sulfoxide</p>	<p><b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m<sup>3</sup> 8 hours.</p> <p><b>DFG MAC-values list (Germany, 7/2017).</b> <b>Absorbed through skin.</b> PEAK: 320 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. TWA: 160 mg/m<sup>3</sup> 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.</p>

- Appropriate engineering controls** :  Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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: safety glasses with side-shields.
- 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.
- 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.

## Section 8. Exposure controls and personal protection

**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

### Appearance

<b>Physical state</b>	:	<input checked="" type="checkbox"/> 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.
		Wash Buffer (5X)	Liquid.
		DNA-Binding Solution	Liquid.
<b>Colour</b>	:	<input checked="" type="checkbox"/> 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.
		Wash Buffer (5X)	Not available.
		DNA-Binding Solution	Not available.
<b>Odour</b>	:	<input checked="" type="checkbox"/> 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.
		Wash Buffer (5X)	Not available.
		DNA-Binding Solution	Not available.
<b>Odour threshold</b>	:	<input checked="" type="checkbox"/> 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.
		Wash Buffer (5X)	Not available.
		DNA-Binding Solution	Not available.
<b>pH</b>	:	<input checked="" type="checkbox"/> 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
		Wash Buffer (5X)	6.4
		DNA-Binding Solution	6.4
<b>Melting point</b>	:	<input checked="" type="checkbox"/> 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.
		Wash Buffer (5X)	0°C (32°F)
		DNA-Binding Solution	Not available.

## Section 9. Physical and chemical properties

<b>Boiling point</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not available.
	Master Mix	
	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.
	Wash Buffer (5X)	100°C (212°F)
<b>Flash point</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not available.
	Master Mix	
	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.
	Wash Buffer (5X)	Not available.
<b>Evaporation rate</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not available.
	Master Mix	
	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.
	Wash Buffer (5X)	Not available.
<b>Flammability (solid, gas)</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not applicable.
	Master Mix	
	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.
	Wash Buffer (5X)	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not available.
	Master Mix	
	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.
	Wash Buffer (5X)	Not available.
<b>Vapour pressure</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not available.
	Master Mix	
	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.
	Wash Buffer (5X)	Not available.
<b>Vapour density</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR	Not available.
	Master Mix	
	MycoSensor Primer Mix	Not available.
	Amplification Control	Not available.
	M. orale Positive Control	Not available.
	A. laidlawii Positive Control	Not available.

## Section 9. Physical and chemical properties

	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Relative density</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Solubility</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix	Easily soluble in the following materials: cold water and hot water.
	MycoSensor Primer Mix	Easily soluble in the following materials: cold water and hot water.
	Amplification Control	Easily soluble in the following materials: cold water and hot water.
	M. orale Positive Control	Easily soluble in the following materials: cold water and hot water.
	A. laidlawii Positive Control	Easily soluble in the following materials: cold water and hot water.
	Reference Dye	Easily soluble in the following materials: cold water and hot water.
	Wash Buffer (5X)	Easily soluble in the following materials: cold water and hot water.
	DNA-Binding Solution	Soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Auto-ignition temperature</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Decomposition temperature</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Viscosity</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	Not available.



## Section 9. Physical and chemical properties

DNA-Binding Solution

Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control  Reference Dye  Wash Buffer (5X)  DNA-Binding Solution	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	The product is stable.  The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control  Reference Dye  Wash Buffer (5X)  DNA-Binding Solution	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>Conditions to avoid</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data.  No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

## Section 10. Stability and reactivity

<b>Incompatible materials</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix  MycoSensor Primer Mix  Amplification Control  M. orale Positive Control  A. laidlawii Positive Control  Reference Dye  Wash Buffer (5X)  DNA-Binding Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> MycoSensor QPCR Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-

## Section 11. Toxicological information

### Sensitisation

Not available.

### Mutagenicity

**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 likely routes of exposure</b>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</li> <li>MycoSensor Primer Mix Amplification Control</li> <li>M. orale Positive Control</li> <li>A. laidlawii Positive Control</li> <li>Reference Dye</li> <li>Wash Buffer (5X)</li> <li>DNA-Binding Solution</li> </ul>	<ul style="list-style-type: none"> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> <li>Not available.</li> <li>Routes of entry anticipated: Oral, Dermal, Inhalation.</li> </ul>
---	--	--

### Potential acute health effects

<b>Eye contact</b>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</li> <li>MycoSensor Primer Mix Amplification Control</li> <li>M. orale Positive Control</li> <li>A. laidlawii Positive Control</li> <li>Reference Dye</li> <li>Wash Buffer (5X)</li> <li>DNA-Binding Solution</li> </ul>	<ul style="list-style-type: none"> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</li> <li>MycoSensor Primer Mix Amplification Control</li> <li>M. orale Positive Control</li> <li>A. laidlawii Positive Control</li> <li>Reference Dye</li> <li>Wash Buffer (5X)</li> <li>DNA-Binding Solution</li> </ul>	<ul style="list-style-type: none"> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>Harmful if inhaled.</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MycoSensor QPCR Master Mix</li> <li>MycoSensor Primer Mix Amplification Control</li> <li>M. orale Positive Control</li> <li>A. laidlawii Positive Control</li> <li>Reference Dye</li> <li>Wash Buffer (5X)</li> <li>DNA-Binding Solution</li> </ul>	<ul style="list-style-type: none"> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>

## Section 11. Toxicological information

<b>Ingestion</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	No known significant effects or critical hazards.
	DNA-Binding Solution	Harmful if swallowed.

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

<b>Eye contact</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	No specific data.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	No specific data.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	No specific data.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> 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.
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### 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

## Section 11. Toxicological information

<b>General</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: <input checked="" type="checkbox"/> MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control M. orale Positive Control A. laidlawii Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

## Section 11. Toxicological information

Route	ATE value
<b>DNA-Binding Solution</b> Oral Dermal Inhalation (dusts and mists)	1057.1 mg/kg 2325.6 mg/kg 3.171 mg/l

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>2X MycoSensor QPCR Master Mix</b> Glycerol Dimethyl sulfoxide	Acute LC50 54000 mg/l Fresh water Acute LC50 25000 ppm Fresh water Acute LC50 34000000 µg/l Fresh water Chronic NOEC 100 ul/L Marine water	Fish - Oncorhynchus mykiss Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas Algae - Ulva lactuca	96 hours 48 hours 96 hours 72 hours

### 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	-	-

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>2X MycoSensor QPCR Master Mix</b> Glycerol Dimethyl sulfoxide	-1.76 -1.35	- 3.16	low low

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.



## Section 14. Transport information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**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 Annex II of Marpol and the IBC Code** : Not available.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

6

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

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

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

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.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</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>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### History

Date of issue/Date of revision : 23/05/2018

Date of previous issue : 12/01/2016

Version : 4

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 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)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> DNA-Binding Solution Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.