

# 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>	: 2X MycoSensor QPCR Master Mix	302106-51	
	MycoSensor Primer Mix	302107-55	
	Amplification Control	302107-54	
	A. laidlawii Positive Control	302107-53	
	M. orale Positive Control	302107-52	
	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>Identified uses</b>	: Analytical reagent.		
	<input checked="" type="checkbox"/> 2X MycoSensor QPCR Master Mix	1.25 ml	
	MycoSensor Primer Mix	0.050 ml	
	Amplification Control	0.050 ml	
	A. laidlawii Positive Control	0.075 ml	
	M. orale Positive Control	0.075 ml	
	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

#### 2X MycoSensor QPCR Master Mix

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

#### DNA-Binding Solution

H302 ACUTE TOXICITY (oral) - Category 4  
H314 SKIN CORROSION/IRRITATION - Category 1C  
H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

### GHS label elements

**Hazard pictograms** : DNA-Binding Solution



## Section 2. Hazard(s) identification

<b>Signal word</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	WARNING  No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. DANGER
<b>Hazard statements</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	H320 - Causes eye irritation.  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. H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H412 - Harmful to aquatic life with long lasting effects.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Not applicable.  Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves, protective clothing and eye or face protection.
<b>Response</b>	: 2X MycoSensor QPCR Master Mix  MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	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. Not applicable. P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. 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.
<b>Storage</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Not applicable.  Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

## Section 2. Hazard(s) identification

<b>Disposal</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	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>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	None known. None known. None known. None known. None known. None known. None known. Causes digestive tract burns.

## Section 3. Composition and ingredient information

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

Ingredient name	% (w/w)	CAS number
<b>2X MycoSensor QPCR Master Mix</b>		
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 and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

## Section 3. Composition and ingredient information

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>	: 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.
	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.
	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.
	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	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.
	<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix
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.
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.
M. orale Positive Control		Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

## Section 4. First aid measures

	Reference Dye	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. 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.
	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.
<b>Skin contact</b>	: 2X MycoSensur 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.
	MycoSensur 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.
	A. laidlawii Positive 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.
	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	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with 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.

## Section 4. First aid measures

<b>Ingestion</b>	: 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.
	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.
	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.
	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.
	Wash Buffer (5X)	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 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.

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

#### Potential acute health effects

## Section 4. First aid measures

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Causes eye irritation.  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. Causes serious eye damage.
<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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>Skin contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Causes severe burns.
<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: 2X MycoSensor QPCR Master Mix  MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Adverse symptoms may include the following:  irritation watering redness  No specific data. 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 MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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 4. First aid measures

<b>Skin contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Adverse symptoms may include the following: stomach pains

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

<b>Notes to physician</b>	: 2X MycoSensor QPCR Master Mix  MycoSensor Primer Mix  Amplification Control  A. laidlawii Positive Control  M. orale 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.  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>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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>	: 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.
	A. laidlawii Positive 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.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training.
	Wash Buffer (5X)	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 contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

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

## Section 5. Firefighting measures

<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.
	A. laidlawii Positive 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.
	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>	: 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.
	A. laidlawii Positive Control	No specific data.
	M. orale 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
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	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>	: 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.
	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.
	M. orale Positive Control	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

## Section 5. Firefighting measures

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

## Section 6. Accidental release measures

### 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 spilt material. Avoid breathing vapour 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 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.
	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 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 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: 2X 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

## Section 6. Accidental release measures

	<p>spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
A. <i>laidlawii</i> Positive Control	<p>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".</p>
M. <i>orale</i> Positive Control	<p>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".</p>
Reference Dye	<p>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".</p>
Wash Buffer (5X)	<p>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".</p>
DNA-Binding Solution	<p>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".</p>
<p><b>Environmental precautions</b> : 2X MycoSensor QPCR Master Mix</p>	<p>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).</p>
MycoSensor Primer Mix	<p>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).</p>
Amplification Control	<p>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).</p>
A. <i>laidlawii</i> Positive Control	<p>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).</p>
M. <i>orale</i> Positive Control	<p>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).</p>
Reference Dye	<p>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).</p>
Wash Buffer (5X)	<p>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).</p>
DNA-Binding Solution	<p>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,</p>

## Section 6. Accidental release measures

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>	: 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.
	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.
	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.
	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

## Section 7. Handling and storage

<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 vapour 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).
	A. laidlawii Positive Control	Put on appropriate personal protective equipment (see Section 8).
	M. orale 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 get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
<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 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.
	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.
	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

## Section 7. Handling and storage

	<p>Reference Dye</p> <p>Wash Buffer (5X)</p> <p>DNA-Binding Solution</p>	<p>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.</p> <p>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.</p> <p>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.</p>
<p><b>Conditions for safe storage, including any incompatibilities</b></p>	<p>: 2X MycoSensor QPCR Master Mix</p> <p>MycoSensor Primer Mix</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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	<p>Amplification Control</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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	<p>A. laidlawii Positive Control</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</p>



## Section 7. Handling and storage

M. orale Positive Control

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.

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 incompatible materials before handling or use.

DNA-Binding Solution

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 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](#)

## Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
<p><b>2X MycoSensor QPCR Master Mix</b></p> <p>Glycerol</p> <p>Dimethyl sulfoxide</p>	<p><b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m<sup>3</sup> 8 hours.</p> <p><b>DFG MAC-values list (Germany, 7/2023).</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>

### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour 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

<b>Physical state</b>	: 2X MycoSensor QPCR Master Mix	Liquid.
	MycoSensor Primer Mix	Liquid.
	Amplification Control	Liquid.
	A. laidlawii Positive Control	Liquid.
	M. orale Positive Control	Liquid.
	Reference Dye	Liquid.
	Wash Buffer (5X)	Liquid.
	DNA-Binding Solution	Liquid.
<b>Colour</b>	: 2X MycoSensor QPCR Master Mix	Not available.
	MycoSensor Primer Mix	Not available.
	Amplification Control	Not available.
	A. laidlawii Positive Control	Not available.
	M. orale Positive Control	Not available.
	Reference Dye	Not available.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Odour</b>	: 2X MycoSensor QPCR Master Mix	Not available.
	MycoSensor Primer Mix	Not available.
	Amplification Control	Not available.
	A. laidlawii Positive Control	Not available.
	M. orale Positive Control	Not available.
	Reference Dye	Not available.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>Odour threshold</b>	: 2X MycoSensor QPCR Master Mix	Not available.
	MycoSensor Primer Mix	Not available.
	Amplification Control	Not available.
	A. laidlawii Positive Control	Not available.
	M. orale Positive Control	Not available.
	Reference Dye	Not available.
	Wash Buffer (5X)	Not available.
	DNA-Binding Solution	Not available.
<b>pH</b>	: 2X MycoSensor QPCR Master Mix	8
	MycoSensor Primer Mix	7.5
	Amplification Control	7.5
	A. laidlawii Positive Control	8
	M. orale Positive Control	8
	Reference Dye	8
	Wash Buffer (5X)	6.4
	DNA-Binding Solution	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)
	A. laidlawii Positive Control	0°C (32°F)
	M. orale 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 and safety characteristics

**Boiling point, initial boiling point, and boiling range** : 2X MycoSensor QPCR Master Mix Not available.  
 MycoSensor Primer Mix 100°C (212°F)  
 Amplification Control 100°C (212°F)  
 A. laidlawii Positive Control 100°C (212°F)  
 M. orale Positive Control 100°C (212°F)  
 Reference Dye Not available.  
 Wash Buffer (5X) 100°C (212°F)  
 DNA-Binding Solution Not available.

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>2X MycoSensor QPCR Master Mix</b>						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	-
Glycerol	-	-	-	177	350.6	-

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

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

**Vapour pressure** :

Ingredient name	Vapour Pressure at 20 °C			Vapour 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	-
Dimethyl sulfoxide	0.42	0.056	EU A.4	-	-	-
<b>MycoSensor Primer Mix</b>						

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

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

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

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

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

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

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

Auto-ignition temperature	Ingredient name	°C	°F	Method
	<b>2X MycoSensor QPCR Master Mix</b>			
	Dimethyl sulfoxide	300 to 302	572 to 575.6	-
	Glycerol	370	698	-

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

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

### Particle characteristics

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

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

## Section 10. Stability and reactivity

<b>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.
	A. laidlawii Positive 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.
	Reference Dye	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.
	DNA-Binding Solution	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: 2X MycoSensor QPCR Master Mix	The product is stable.
	MycoSensor Primer Mix	The product is stable.
	Amplification Control	The product is stable.
	A. laidlawii Positive Control	The product is stable.
	M. orale Positive Control	The product is stable.
	Reference Dye	The product is stable.
	Wash Buffer (5X)	The product is stable.
	DNA-Binding Solution	The product is stable.
<b>Possibility of hazardous reactions</b>	: 2X MycoSensor QPCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	MycoSensor Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Amplification Control	Under normal conditions of storage and use, hazardous reactions will not occur.
	A. laidlawii Positive Control	Under normal conditions of storage and use, hazardous reactions will not occur.
	M. orale Positive Control	Under normal conditions of storage and use, hazardous reactions will not occur.
	Reference Dye	Under normal conditions of storage and use, hazardous reactions will not occur.
	Wash Buffer (5X)	Under normal conditions of storage and use, hazardous reactions will not occur.
	DNA-Binding Solution	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>Conditions to avoid</b>	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	M. orale Positive Control	No specific data.
	Reference Dye	No specific data.
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	No specific data.
<b>Incompatible materials</b>	: 2X MycoSensor QPCR Master Mix	May react or be incompatible with oxidising materials.
	MycoSensor Primer Mix	May react or be incompatible with oxidising materials.
	Amplification Control	May react or be incompatible with oxidising materials.
	A. laidlawii Positive Control	May react or be incompatible with oxidising materials.
	M. orale Positive Control	May react or be incompatible with oxidising materials.
	Reference Dye	May react or be incompatible with oxidising materials.
	Wash Buffer (5X)	May react or be incompatible with oxidising materials.
	DNA-Binding Solution	May react or be incompatible with oxidising materials.
<b>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.
	A. laidlawii Positive 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.
	Reference Dye	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.
	DNA-Binding Solution	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
<b>2X MycoSensor QPCR Master Mix</b> Glycerol Dimethyl sulfoxide	LD50 Oral	Rat	12600 mg/kg	-
	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	LC50 Inhalation Dusts and mists	Rat - Female	3.181 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	593 mg/kg	-

#### Irritation/Corrosion



## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
2X MycoSensur QPCR Master Mix	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Glycerol	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

### 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.

**Information on likely routes of exposure** : 2X MycoSensur QPCR Master Mix Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
 MycoSensur Primer Mix Not available.  
 Amplification Control Not available.  
 A. laidlawii Positive Control Not available.  
 M. orale Positive Control Not available.  
 Reference Dye Not available.  
 Wash Buffer (5X) Not available.  
 DNA-Binding Solution Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

**Eye contact** : 2X MycoSensur QPCR Master Mix Causes eye irritation.  
 MycoSensur Primer Mix No known significant effects or critical hazards.  
 Amplification Control No known significant effects or critical hazards.  
 A. laidlawii Positive Control No known significant effects or critical hazards.  
 M. orale 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 Causes serious eye damage.

## Section 11. Toxicological information

<b>Inhalation</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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>Skin contact</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Causes severe burns.
<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Corrosive to the digestive tract. Causes burns.

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

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

## Section 11. Toxicological information

	DNA-Binding Solution	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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. Adverse symptoms may include the following: stomach pains

### 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

<b>General</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale 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.
<b>Reproductive toxicity</b>	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye	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.

## Section 11. Toxicological information

Wash Buffer (5X)  
DNA-Binding Solution

No known significant effects or critical hazards.  
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 (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>2X MycoSensor QPCR Master Mix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
<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

### 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
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 100 µl/L Marine water	Algae - <i>Ulva lactuca</i>	72 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	21 days

### 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	-	-
Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
<b>DNA-Binding Solution</b>				
Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	46 % - Inherent - 28 days	-	-

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>2X MycoSensor QPCR Master Mix</b> Dimethyl sulfoxide	-	-	Not readily
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	-	-	Inherent

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>2X MycoSensor QPCR Master Mix</b> Glycerol	-1.76	-	Low
Dimethyl sulfoxide	-1.35	3.16	Low
<b>DNA-Binding Solution</b> Guanidinium thiocyanate	<-1.7	-	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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	ADG	IMDG	IATA
<b>UN number</b>	UN3316	UN3316	UN3316
<b>UN proper shipping name</b>	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
<b>Transport hazard class(es)</b>	9 	9 	9 
<b>Packing group</b>	III	III	III
<b>Environmental hazards</b>	No.	No.	No.

### Additional information

## Section 14. Transport information

Remarks: Excepted Quantity

**ADG** : **Hazchem code** 2Z  
**Special provisions** 251, 340

**IMDG** : **Emergency schedules** F-A, \_S-P\_  
**Special provisions** 251, 340

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.  
**Special provisions** A44, A163

**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

### Standard for the Uniform Scheduling of Medicines 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

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

**Australia** : Not determined.

**New Zealand** : Not determined.

**United States** : Not determined.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 12/04/2024

**Date of previous issue** : 31/08/2023

**Version** : 8

## Section 16. Any other relevant information

**Key to abbreviations** :

- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- 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
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

### Procedure used to derive the classification

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

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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