

# SAFETY DATA SHEET



OQ\_PV Test Sample for Refractive Index Detector, Part Number 5064-8220

## Section 1. Identification

**Product identifier** : OQ\_PV Test Sample for Refractive Index Detector, Part Number 5064-8220

**Part no. (chemical kit)** : 5064-8220

**Part no.** : Refractive Index Det OQ/PV Test Sample 5064-8220-1  
(5 mg/mL)  
Refractive Index Det OQ/PV Test Sample 5064-8220-2  
(10 mg/mL)  
Refractive Index Det OQ/PV Test Sample 5064-8220-3  
(15 mg/mL)  
Refractive Index Det OQ/PV Test Sample 5064-8220-4  
(25 mg/mL)  
Refractive Index Det OQ/PV Test Sample 5064-8220-5  
(50 mg/mL)

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

**Material uses** : Reagents and Standards for Analytical Chemistry Laboratory Use

Refractive Index Det OQ/PV Test Sample 1 x 5 ml  
(5 mg/mL)

Refractive Index Det OQ/PV Test Sample 1 x 5 ml  
(10 mg/mL)

Refractive Index Det OQ/PV Test Sample 1 x 5 ml  
(15 mg/mL)

Refractive Index Det OQ/PV Test Sample 1 x 5 ml  
(25 mg/mL)

Refractive Index Det OQ/PV Test Sample 1 x 5 ml  
(50 mg/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

#### **Refractive Index Det OQ/PV Test Sample (5 mg/mL)**

H317 SKIN SENSITISATION - Category 1  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### **Refractive Index Det OQ/PV Test Sample (10 mg/mL)**

H317 SKIN SENSITISATION - Category 1  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### **Refractive Index Det OQ/PV Test Sample (15 mg/mL)**

H317 SKIN SENSITISATION - Category 1  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

## Section 2. Hazard(s) identification

### Refractive Index Det OQ/PV

#### Test Sample (25 mg/mL)

H317 SKIN SENSITISATION - Category 1  
 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3






### Refractive Index Det OQ/PV

#### Test Sample (50 mg/mL)

H317 SKIN SENSITISATION - Category 1  
 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

### GHS label elements

#### Hazard pictograms

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) 
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) 
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) 
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) 
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) 

#### Signal word

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) WARNING
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) WARNING
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) WARNING
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) WARNING
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) WARNING

#### Hazard statements

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.

## Section 2. Hazard(s) identification

### Precautionary statements

<b>Prevention</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
	<b>Response</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
Refractive Index Det OQ/PV Test Sample (10 mg/mL)		P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
Refractive Index Det OQ/PV Test Sample (15 mg/mL)		P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
Refractive Index Det OQ/PV Test Sample (25 mg/mL)		P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
Refractive Index Det OQ/PV Test Sample (50 mg/mL)		P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
<b>Storage</b>		: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Not applicable.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Not applicable.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Not applicable.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Not applicable.
	<b>Disposal</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
Refractive Index Det OQ/PV Test Sample (10 mg/mL)		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Refractive Index Det OQ/PV Test Sample (15 mg/mL)		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Refractive Index Det OQ/PV Test Sample (25 mg/mL)		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 2. Hazard(s) identification

Refractive Index Det OQ/PV Test Sample (50 mg/mL) international regulations.  
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Supplemental label elements

**Additional warning phrases**

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not applicable.
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not applicable.
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not applicable.
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not applicable.
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not applicable.

**Other hazards which do not result in classification**

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) None known.
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) None known.
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) None known.
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) None known.
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) None known.

## Section 3. Composition and ingredient information

**Substance/mixture**

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Mixture
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) Mixture
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) Mixture
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) Mixture
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.025	55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.025	55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	≤3 <0.025	56-81-5 55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	≤3 <0.025	56-81-5 55965-84-9

### Section 3. Composition and ingredient information

<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b>		
Glycerol	≤5	56-81-5
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.025	55965-84-9

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>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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.
		Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,

## Section 4. First aid measures

		provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Refractive Index Det OQ/PV	Wash with plenty of soap and water. Remove



## Section 4. First aid measures

	Test Sample (50 mg/mL)	contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	:  Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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.

## Section 4. First aid measures

Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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.
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### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No known significant effects or critical hazards.
<b>Inhalation</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No known significant effects or critical hazards.
<b>Skin contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	May cause an allergic skin reaction.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	May cause an allergic skin reaction.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	May cause an allergic skin reaction.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	May cause an allergic skin reaction.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	May cause an allergic skin reaction.
<b>Ingestion</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No known significant effects or critical hazards.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms



## Section 4. First aid measures

<b>Eye contact</b>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data.
<b>Inhalation</b>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data.
<b>Skin contact</b>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Adverse symptoms may include the following: irritation redness
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Adverse symptoms may include the following: irritation redness
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Adverse symptoms may include the following: irritation redness
		Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Adverse symptoms may include the following: irritation redness
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No specific data.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data.

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

<b>Notes to physician</b>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No specific treatment.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No specific treatment.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No specific treatment.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No specific treatment.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific treatment.
<b>Protection of first-aiders</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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. 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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Use an extinguishing agent suitable for the surrounding fire.

## Section 5. Firefighting measures

<b>Unsuitable extinguishing media</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	None known. None known. None known. None known. None known.
<b>Specific hazards arising from the chemical</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)  Refractive Index Det OQ/PV Test Sample (10 mg/mL)  Refractive Index Det OQ/PV Test Sample (15 mg/mL)  Refractive Index Det OQ/PV Test Sample (25 mg/mL)  Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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.  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.  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.  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.  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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL)  Refractive Index Det OQ/PV Test Sample (25 mg/mL)  Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide

## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

## Section 6. Accidental release measures

		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.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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".
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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".
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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".
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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".
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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".
<b>Environmental precautions</b>	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has



## Section 6. Accidental release measures

Refractive Index Det OQ/PV  
Test Sample (50 mg/mL)

caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

#### **Methods for cleaning up**

: Refractive Index Det OQ/PV  
Test Sample (5 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (10 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (15 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (25 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (50 mg/mL)

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**

: Refractive Index Det OQ/PV  
Test Sample (5 mg/mL)

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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.

Refractive Index Det OQ/PV  
Test Sample (10 mg/mL)

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an



## Section 7. Handling and storage

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.

Refractive Index Det OQ/PV  
Test Sample (15 mg/mL)

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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.

Refractive Index Det OQ/PV  
Test Sample (25 mg/mL)

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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.

Refractive Index Det OQ/PV  
Test Sample (50 mg/mL)

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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

: Refractive Index Det OQ/PV  
Test Sample (5 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (10 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (15 mg/mL)

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.

Refractive Index Det OQ/PV  
Test Sample (25 mg/mL)

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

## Section 7. Handling and storage

<p>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</p>	<p>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><b>Conditions for safe storage, including any incompatibilities</b> : Refractive Index Det OQ/PV Test Sample (5 mg/mL)</p>	<p>Store between the following temperatures: 5 to 30°C (41 to 86°F). 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>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</p>	<p>Store between the following temperatures: 5 to 30°C (41 to 86°F). 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>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</p>	<p>Store between the following temperatures: 5 to 30°C (41 to 86°F). 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>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</p>	<p>Store between the following temperatures: 5 to 30°C (41 to 86°F). 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>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</p>	<p>Store between the following temperatures: 5 to 30°C (41 to 86°F). 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</p>

## Section 7. Handling and storage

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
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol	<b>Safe Work Australia (Australia, 12/2019).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Refractive Index Det OQ/PV Test Sample (25 mg/mL) Glycerol	<b>Safe Work Australia (Australia, 12/2019).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Refractive Index Det OQ/PV Test Sample (50 mg/mL) Glycerol	<b>Safe Work Australia (Australia, 12/2019).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

- 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. Contaminated work clothing should not be allowed out of the workplace. 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. 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.

## Section 8. Exposure controls and personal protection

- 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

- Physical state** : Refractive Index Det OQ/PV Liquid.  
Test Sample (5 mg/mL)  
Refractive Index Det OQ/PV Liquid.  
Test Sample (10 mg/mL)  
Refractive Index Det OQ/PV Liquid.  
Test Sample (15 mg/mL)  
Refractive Index Det OQ/PV Liquid.  
Test Sample (25 mg/mL)  
Refractive Index Det OQ/PV Liquid.  
Test Sample (50 mg/mL)
- Colour** : Refractive Index Det OQ/PV Colourless.  
Test Sample (5 mg/mL)  
Refractive Index Det OQ/PV Colourless.  
Test Sample (10 mg/mL)  
Refractive Index Det OQ/PV Colourless.  
Test Sample (15 mg/mL)  
Refractive Index Det OQ/PV Colourless.  
Test Sample (25 mg/mL)  
Refractive Index Det OQ/PV Colourless.  
Test Sample (50 mg/mL)
- Odour** : Refractive Index Det OQ/PV Odourless.  
Test Sample (5 mg/mL)  
Refractive Index Det OQ/PV Odourless.  
Test Sample (10 mg/mL)  
Refractive Index Det OQ/PV Odourless.  
Test Sample (15 mg/mL)  
Refractive Index Det OQ/PV Odourless.  
Test Sample (25 mg/mL)  
Refractive Index Det OQ/PV Odourless.  
Test Sample (50 mg/mL)
- Odour threshold** : Refractive Index Det OQ/PV Not available.  
Test Sample (5 mg/mL)  
Refractive Index Det OQ/PV Not available.  
Test Sample (10 mg/mL)  
Refractive Index Det OQ/PV Not available.  
Test Sample (15 mg/mL)  
Refractive Index Det OQ/PV Not available.  
Test Sample (25 mg/mL)  
Refractive Index Det OQ/PV Not available.  
Test Sample (50 mg/mL)
- pH** : Refractive Index Det OQ/PV 7  
Test Sample (5 mg/mL)  
Refractive Index Det OQ/PV 7  
Test Sample (10 mg/mL)  
Refractive Index Det OQ/PV 7  
Test Sample (15 mg/mL)  
Refractive Index Det OQ/PV 7  
Test Sample (50 mg/mL)

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

- Test Sample (25 mg/mL)  
 Refractive Index Det OQ/PV 7  
 Test Sample (50 mg/mL)
- Melting point/freezing point** : Refractive Index Det OQ/PV 0°C (32°F)  
 Test Sample (5 mg/mL)  
 Refractive Index Det OQ/PV 0°C (32°F)  
 Test Sample (10 mg/mL)  
 Refractive Index Det OQ/PV 0°C (32°F)  
 Test Sample (15 mg/mL)  
 Refractive Index Det OQ/PV 0°C (32°F)  
 Test Sample (25 mg/mL)  
 Refractive Index Det OQ/PV 0°C (32°F)  
 Test Sample (50 mg/mL)
- Boiling point, initial boiling point, and boiling range** : Refractive Index Det OQ/PV 100°C (212°F)  
 Test Sample (5 mg/mL)  
 Refractive Index Det OQ/PV 100°C (212°F)  
 Test Sample (10 mg/mL)  
 Refractive Index Det OQ/PV 100°C (212°F)  
 Test Sample (15 mg/mL)  
 Refractive Index Det OQ/PV 100°C (212°F)  
 Test Sample (25 mg/mL)  
 Refractive Index Det OQ/PV 100°C (212°F)  
 Test Sample (50 mg/mL)

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
Refractive Index Det OQ/PV Test Sample (5 mg/mL) Glycerol				177	350.6	
Refractive Index Det OQ/PV Test Sample (10 mg/mL) Glycerol				177	350.6	
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol				177	350.6	
Refractive Index Det OQ/PV Test Sample (25 mg/mL) Glycerol				177	350.6	
Refractive Index Det OQ/PV Test Sample (50 mg/mL) Glycerol				177	350.6	

- Evaporation rate** : Refractive Index Det OQ/PV Not available.  
 Test Sample (5 mg/mL)  
 Refractive Index Det OQ/PV Not available.  
 Test Sample (10 mg/mL)  
 Refractive Index Det OQ/PV Not available.  
 Test Sample (15 mg/mL)  
 Refractive Index Det OQ/PV Not available.  
 Test Sample (25 mg/mL)  
 Refractive Index Det OQ/PV Not available.

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

**Flammability** : Test Sample (50 mg/mL)  
 : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not applicable.

**Lower and upper explosion limit/flammability limit** : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) 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>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b>						
water	23.8	3.2		92.258	12.3	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1.6	0.21				
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b>						
water	23.8	3.2		92.258	12.3	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1.6	0.21				
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b>						
water	23.8	3.2		92.258	12.3	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1.6	0.21				



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

<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b>						
water	23.8	3.2			92.258	12.3
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1.6	0.21				
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b>						
water	23.8	3.2			92.258	12.3
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1.6	0.21				

- Relative vapour density** : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not available.
- Relative density** : Refractive Index Det OQ/PV Test Sample (5 mg/mL) 1  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) 1  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) 1  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) 1  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) 1
- Solubility** : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Easily soluble in the following materials: cold water and hot water.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Easily soluble in the following materials: cold water and hot water.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Easily soluble in the following materials: cold water and hot water.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Easily soluble in the following materials: cold water and hot water.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not applicable.

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

Test Sample (50 mg/mL)

**Auto-ignition temperature**

Ingredient name	°C	°F	Method
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b>			
Glycerol	370	698	
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b>			
Glycerol	370	698	
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b>			
Glycerol	370	698	
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b>			
Glycerol	370	698	
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b>			
Glycerol	370	698	

**Decomposition temperature**

Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not available.

**Viscosity**

Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not available.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not available.

**Particle characteristics**

**Median particle size**

Refractive Index Det OQ/PV Test Sample (5 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (10 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (15 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (25 mg/mL) Not applicable.  
 Refractive Index Det OQ/PV Test Sample (50 mg/mL) Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Incompatible materials</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LC50 Inhalation Vapour	Rat	0.33 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	87.12 mg/kg 53 mg/kg	- -
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LC50 Inhalation Vapour	Rat	0.33 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	87.12 mg/kg 53 mg/kg	- -
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral LC50 Inhalation Vapour	Rat Rat	12600 mg/kg 0.33 mg/l	- 4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	87.12 mg/kg 53 mg/kg	- -
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol reaction mass of: 5-chloro-	LD50 Oral LC50 Inhalation Vapour	Rat Rat	12600 mg/kg 0.33 mg/l	- 4 hours

## Section 11. Toxicological information

2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  <b>Refractive Index Det OQ/ PV Test Sample (50 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Dermal LD50 Oral	Rabbit Rat	87.12 mg/kg 53 mg/kg	- -
	LD50 Oral LC50 Inhalation Vapour	Rat Rat	12600 mg/kg 0.33 mg/l	- 4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	87.12 mg/kg 53 mg/kg	- -

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Refractive Index Det OQ/ PV Test Sample (15 mg/mL)</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Refractive Index Det OQ/ PV Test Sample (25 mg/mL)</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Refractive Index Det OQ/ PV Test Sample (50 mg/mL)</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - 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.

## Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

<b>Eye contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No known significant effects or critical hazards.
<b>Inhalation</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No known significant effects or critical hazards.
<b>Skin contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	May cause an allergic skin reaction.
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	May cause an allergic skin reaction.
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	May cause an allergic skin reaction.
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	May cause an allergic skin reaction.
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	May cause an allergic skin reaction.
<b>Ingestion</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	No known significant effects or critical hazards.
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No known significant effects or critical hazards.

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



## Section 11. Toxicological information

<b>Eye contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)  Refractive Index Det OQ/PV Test Sample (10 mg/mL)  Refractive Index Det OQ/PV Test Sample (15 mg/mL)  Refractive Index Det OQ/PV Test Sample (25 mg/mL)  Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data. No specific data. No specific data. No specific data. 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.

## Section 11. Toxicological information

### Potential chronic health effects

<b>General</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
<b>Carcinogenicity</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL) Refractive Index Det OQ/PV Test Sample (10 mg/mL) Refractive Index Det OQ/PV Test Sample (15 mg/mL) Refractive Index Det OQ/PV Test Sample (25 mg/mL) Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	53	87.12	N/A	0.5	N/A
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	53	87.12	N/A	0.5	N/A

## Section 11. Toxicological information

<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	12600 53	N/A 87.12	N/A N/A	N/A 0.5	N/A N/A
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	12600 53	N/A 87.12	N/A N/A	N/A 0.5	N/A N/A
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	12600 53	N/A 87.12	N/A N/A	N/A 0.5	N/A N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute LC50 0.16 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute LC50 0.16 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 0.16 mg/l Fresh water	Daphnia	48 hours

## Section 12. Ecological information

<p>1)</p> <p><b>Refractive Index Det OQ/ PV Test Sample (25 mg/ mL)</b> Glycerol reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)</p>	<p>Acute LC50 0.19 mg/l Fresh water Chronic NOEC &gt;0.0464 mg/l Fresh water</p>	<p>Fish Fish</p>	<p>96 hours 96 hours</p>
<p><b>Refractive Index Det OQ/ PV Test Sample (50 mg/ mL)</b> Glycerol reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)</p>	<p>Acute LC50 54000 mg/l Fresh water Acute LC50 0.16 mg/l Fresh water</p>	<p>Fish - Oncorhynchus mykiss Daphnia</p>	<p>96 hours 48 hours</p>
<p><b>Refractive Index Det OQ/ PV Test Sample (50 mg/ mL)</b> Glycerol reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)</p>	<p>Acute LC50 0.19 mg/l Fresh water Chronic NOEC &gt;0.0464 mg/l Fresh water</p>	<p>Fish Fish</p>	<p>96 hours 96 hours</p>
<p><b>Refractive Index Det OQ/ PV Test Sample (10 mg/ mL)</b> Glycerol reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)</p>	<p>Acute LC50 54000 mg/l Fresh water Acute LC50 0.16 mg/l Fresh water</p>	<p>Fish - Oncorhynchus mykiss Daphnia</p>	<p>96 hours 48 hours</p>
<p><b>Refractive Index Det OQ/ PV Test Sample (15 mg/ mL)</b> Glycerol</p>	<p>Acute LC50 0.19 mg/l Fresh water Chronic NOEC &gt;0.0464 mg/l Fresh water</p>	<p>Fish Fish</p>	<p>96 hours 96 hours</p>

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<p><b>Refractive Index Det OQ/ PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)</p>	<p>OECD 301B Ready Biodegradability - CO2 Evolution Test</p>	<p>62 % - Readily - 28 days</p>	<p>-</p>	<p>-</p>
<p><b>Refractive Index Det OQ/ PV Test Sample (10 mg/ mL)</b> reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)</p>	<p>OECD 301B Ready Biodegradability - CO2 Evolution Test</p>	<p>62 % - Readily - 28 days</p>	<p>-</p>	<p>-</p>
<p><b>Refractive Index Det OQ/ PV Test Sample (15 mg/ mL)</b> Glycerol</p>	<p>301D Ready Biodegradability - Closed Bottle Test</p>	<p>93 % - 30 days</p>	<p>-</p>	<p>-</p>

## Section 12. Ecological information

<p>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p> <p><b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol</p>	<p>OECD 301B Ready Biodegradability - CO2 Evolution Test</p>	<p>62 % - Readily - 28 days</p>	-	-
<p>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p> <p><b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol</p>	<p>301D Ready Biodegradability - Closed Bottle Test</p>	<p>93 % - 30 days</p>	-	-
<p>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p> <p><b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol</p>	<p>OECD 301B Ready Biodegradability - CO2 Evolution Test</p>	<p>62 % - Readily - 28 days</p>	-	-
<p>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p> <p><b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol</p>	<p>301D Ready Biodegradability - Closed Bottle Test</p>	<p>93 % - 30 days</p>	-	-
<p>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p> <p><b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol</p>	<p>OECD 301B Ready Biodegradability - CO2 Evolution Test</p>	<p>62 % - Readily - 28 days</p>	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<p><b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	-	-	Readily
<p><b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	-	-	Readily
<p><b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	-	-	Readily

## Section 12. Ecological information

<p>1) <b>Refractive Index Det OQ/ PV Test Sample (25 mg/ mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	-	-	Readily
<p><b>Refractive Index Det OQ/ PV Test Sample (50 mg/ mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<p><b>Refractive Index Det OQ/ PV Test Sample (5 mg/mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	0.326	-	low
<p><b>Refractive Index Det OQ/ PV Test Sample (10 mg/ mL)</b> reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	0.326	-	low
<p><b>Refractive Index Det OQ/ PV Test Sample (15 mg/ mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</p>	-1.76 0.326	- -	low low
<p><b>Refractive Index Det OQ/ PV Test Sample (25 mg/ mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]</p>	-1.76 0.326	- -	low low



## Section 12. Ecological information

and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  <b>Refractive Index Det OQ/ PV Test Sample (50 mg/mL)</b> Glycerol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	-1.76 0.326	- -	low low
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### 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** : 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 IMO instruments** : Not available.

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

### 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.

## Section 15. Regulatory information

### 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>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: All components are listed or exempted.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 17/05/2022

**Date of previous issue** : 23/06/2021

**Version** : 7

**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

## Section 16. Any other relevant information

Classification	Justification
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method

**References** : Not available.

Indicates information that has changed from previously issued version.

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