

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 (5 mg/mL) 5064-8220-1 Refractive Index Det OQ/PV Test Sample (10 mg/mL) 5064-8220-2 Refractive Index Det OQ/PV Test Sample (15 mg/mL) 5064-8220-3 Refractive Index Det OQ/PV Test Sample (25 mg/mL) 5064-8220-4 Refractive Index Det OQ/PV Test Sample (50 mg/mL) 5064-8220-5
Material uses	: Reagents and Standards for Analytical Chemistry Laboratory Use Refractive Index Det OQ/PV Test Sample (5 mg/mL) 1 x 5 ml Refractive Index Det OQ/PV Test Sample (10 mg/mL) 1 x 5 ml Refractive Index Det OQ/PV Test Sample (15 mg/mL) 1 x 5 ml Refractive Index Det OQ/PV Test Sample (25 mg/mL) 1 x 5 ml Refractive Index Det OQ/PV Test Sample (50 mg/mL) 1 x 5 ml
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
Emergency telephone number (with hours of operation)	: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

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

H317 SKIN SENSITIZATION - Category 1A
H412 AQUATIC HAZARD (LONG-TERM) - Category 3

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

H317 SKIN SENSITIZATION - Category 1A
H412 AQUATIC HAZARD (LONG-TERM) - Category 3

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

H317 SKIN SENSITIZATION - Category 1A
H412 AQUATIC HAZARD (LONG-TERM) - Category 3

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

Section 2. Hazard identification

H317 SKIN SENSITIZATION - Category 1A
H412 AQUATIC HAZARD (LONG-TERM) - Category 3

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

H317 SKIN SENSITIZATION - Category 1A
H412 AQUATIC HAZARD (LONG-TERM) - 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 Warning
Test Sample (5 mg/mL)
Refractive Index Det OQ/PV Warning
Test Sample (10 mg/mL)
Refractive Index Det OQ/PV Warning
Test Sample (15 mg/mL)
Refractive Index Det OQ/PV Warning
Test Sample (25 mg/mL)
Refractive Index Det OQ/PV Warning
Test Sample (50 mg/mL)

Hazard statements

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


Section 2. Hazard identification

Precautionary statements

Prevention

- : Refractive Index Det OQ/PV Test Sample (5 mg/mL) P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.

Response

- :  Refractive Index Det OQ/PV Test Sample (5 mg/mL) P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
- Refractive Index Det OQ/PV Test Sample (10 mg/mL) P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
- Refractive Index Det OQ/PV Test Sample (15 mg/mL) P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
- Refractive Index Det OQ/PV Test Sample (25 mg/mL) P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
- Refractive Index Det OQ/PV Test Sample (50 mg/mL) P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage

- : 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.

Section 2. Hazard identification

	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Not applicable.
Disposal	: Refractive Index Det OQ/PV Test Sample (5 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 (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.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 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.
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/information on ingredients

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

Section 3. Composition/information on ingredients

Ingredient name	% (w/w)	CAS number
Refractive Index Det OQ/PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.1	55965-84-9
Refractive Index Det OQ/PV Test Sample (10 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.1	55965-84-9
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.5 - 1.5 <0.1	56-81-5 55965-84-9
Refractive Index Det OQ/PV Test Sample (25 mg/mL) Glycerol 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	1 - 5 <0.1	56-81-5 55965-84-9
Refractive Index Det OQ/PV Test Sample (50 mg/mL) Glycerol 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	1 - 5 <0.1	56-81-5 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

Eye contact	: 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.

Section 4. First-aid measures

Inhalation

: 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, 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.

Section 4. First-aid measures

Skin contact

- : 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 Test Sample (50 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.

Ingestion

- : 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

Section 4. First-aid measures

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First-aid measures

Eye contact	: 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.
	Inhalation	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
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.
Skin contact		: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
	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.
	Ingestion	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
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

Eye contact	: 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.
	Inhalation	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)
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.

Section 4. First-aid measures

	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	No specific data.
Skin contact	: 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
Ingestion	: 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

Notes to physician	: 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.
	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.
Specific treatments	: 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.

Section 4. First-aid measures

Protection of first-aiders	:	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. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	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.
Unsuitable extinguishing media	:	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 5. Fire-fighting measures

Specific hazards arising from the chemical	: Refractive Index Det OQ/PV Test Sample (5 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.
	Refractive Index Det OQ/PV Test Sample (10 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.
	Refractive Index Det OQ/PV Test Sample (15 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.
	Refractive Index Det OQ/PV Test Sample (25 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.
	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.
Hazardous thermal decomposition products	: 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)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: 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	Promptly isolate the scene by removing all persons

Section 5. Fire-fighting measures

	Test Sample (25 mg/mL)	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.
Special protective equipment for fire-fighters	: 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

For non-emergency personnel	: 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 spilled material. Avoid breathing vapor 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 spilled material. Avoid breathing vapor 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 personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	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 spilled material. Avoid breathing vapor or

Section 6. Accidental release measures

Refractive Index Det OQ/PV Test Sample (50 mg/mL)	mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : Refractive Index Det OQ/PV Test Sample (5 mg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Refractive Index Det OQ/PV Test Sample (10 mg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Refractive Index Det OQ/PV Test Sample (15 mg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Refractive Index Det OQ/PV Test Sample (25 mg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Refractive Index Det OQ/PV Test Sample (50 mg/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions : Refractive Index Det OQ/PV Test Sample (5 mg/mL)	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.
Refractive Index Det OQ/PV Test Sample (10 mg/mL)	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.
Refractive Index Det OQ/PV Test Sample (15 mg/mL)	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.
Refractive Index Det OQ/PV Test Sample (25 mg/mL)	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.
Refractive Index Det OQ/PV Test Sample (50 mg/mL)	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,

Section 6. Accidental release measures

soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials 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 vapor 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 vapor 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

Section 7. Handling and storage

Refractive Index Det OQ/PV Test Sample (15 mg/mL)	hazardous. Do not reuse container. 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 vapor 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 vapor 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 vapor 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)
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

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

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.

Conditions for safe storage, including any incompatibilities

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

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

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

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

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

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

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

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

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

Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in accordance with local

Section 7. Handling and storage

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

Section 8. Exposure controls/personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 1/2021). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist
Refractive Index Det OQ/PV Test Sample (25 mg/mL) Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 1/2021). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist
Refractive Index Det OQ/PV Test Sample (50 mg/mL) Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada,

Section 8. Exposure controls/personal protection

1/2021).

TWA: 3 mg/m³ 8 hours. Form: respirable mistTWA: 10 mg/m³ 8 hours. Form: total mist

- 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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Section 9. Physical and chemical properties and safety characteristics

Physical state	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Liquid.	
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Liquid.	
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Liquid.	
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Liquid.	
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Liquid.	
	Color	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Colorless.
		: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Colorless.
: Refractive Index Det OQ/PV Test Sample (15 mg/mL)		Colorless.	
: Refractive Index Det OQ/PV Test Sample (25 mg/mL)		Colorless.	
: Refractive Index Det OQ/PV Test Sample (50 mg/mL)		Colorless.	
Odor		: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Odorless.
		: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Odorless.
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Odorless.	
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Odorless.	
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Odorless.	
	Odor threshold	: 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.	
pH		: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	7
		: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	7
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	7	
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	7	
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	7	
	Melting point/freezing point	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	0°C (32°F)
		: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	0°C (32°F)
: Refractive Index Det OQ/PV Test Sample (15 mg/mL)		0°C (32°F)	
: Refractive Index Det OQ/PV Test Sample (50 mg/mL)		0°C (32°F)	

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range : Test Sample (25 mg/mL)
 Refractive Index Det OQ/PV 0°C (32°F)
 Test Sample (50 mg/mL)
 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 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.

Section 9. Physical and chemical properties and safety characteristics

Flammability : 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.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Refractive Index Det OQ/PV Test Sample (5 mg/mL)						
water	23.8	3.2		92.258	12.3	
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	1.6	0.21				
Refractive Index Det OQ/PV Test Sample (10 mg/mL)						
water	23.8	3.2		92.258	12.3	
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	1.6	0.21				
Refractive Index Det OQ/PV Test Sample (15 mg/mL)						
water	23.8	3.2		92.258	12.3	
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	1.6	0.21				
Refractive Index Det OQ/PV Test Sample (25 mg/mL)						
water	23.8	3.2		92.258	12.3	
5-Chloro-2-methyl-3(2H)-isothiazolone	1.6	0.21				

Section 9. Physical and chemical properties and safety characteristics

-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone						
Refractive Index Det OQ/PV Test Sample (50 mg/mL)						
water	23.8	3.2		92.258	12.3	
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	1.6	0.21				

- Relative vapor 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.
- Auto-ignition temperature** :

Section 9. Physical and chemical properties and safety characteristics

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

Reactivity	: 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.
Chemical stability	: 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.
Possibility of hazardous reactions	: 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.
Conditions to avoid	: 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.
Incompatible materials	: 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 oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: 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
Refractive Index Det OQ/PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	LC50 Inhalation Vapor	Rat	0.33 mg/l	4 hours
	LD50 Dermal	Rabbit	87.12 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-
Refractive Index Det OQ/PV Test Sample (10 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	LC50 Inhalation Vapor	Rat	0.33 mg/l	4 hours
	LD50 Dermal	Rabbit	87.12 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	LD50 Oral	Rat	12600 mg/kg	-
	LC50 Inhalation Vapor	Rat	0.33 mg/l	4 hours
	LD50 Dermal	Rabbit	87.12 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-
Refractive Index Det OQ/PV Test Sample (25 mg/mL) Glycerol 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	LD50 Oral	Rat	12600 mg/kg	-
	LC50 Inhalation Vapor	Rat	0.33 mg/l	4 hours
	LD50 Dermal	Rabbit	87.12 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-
Refractive Index Det OQ/				

Section 11. Toxicological information

PV Test Sample (50 mg/mL) Glycerol 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	LD50 Oral LC50 Inhalation Vapor	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
Refractive Index Det OQ/ PV Test Sample (15 mg/mL) Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Refractive Index Det OQ/ PV Test Sample (25 mg/mL) Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Refractive Index Det OQ/ PV Test Sample (50 mg/mL) Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

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.

Section 11. Toxicological information

Information on the likely routes of exposure	: 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

Eye contact	: 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.

Inhalation	: 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.

Skin contact	: 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.

Ingestion	: 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

Eye contact	: 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.
Inhalation	: 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.
Skin contact	: 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
Ingestion	: 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 and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

Carcinogenicity : 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.

Mutagenicity : 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.

Reproductive toxicity : 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)

Section 11. Toxicological information

Refractive Index Det OQ/PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	53	87.12	N/A	0.5	N/A
Refractive Index Det OQ/PV Test Sample (10 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	53	87.12	N/A	0.5	N/A
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol	12600	N/A	N/A	N/A	N/A
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	53	87.12	N/A	0.5	N/A
Refractive Index Det OQ/PV Test Sample (25 mg/mL) Glycerol	12600	N/A	N/A	N/A	N/A
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	53	87.12	N/A	0.5	N/A
Refractive Index Det OQ/PV Test Sample (50 mg/mL) Glycerol	12600	N/A	N/A	N/A	N/A
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	53	87.12	N/A	0.5	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Refractive Index Det OQ/PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 0.16 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 0.19 mg/l Fresh water	Fish	96 hours
	Chronic NOEC >0.0464 mg/l Fresh water	Fish	96 hours
Refractive Index Det OQ/PV Test Sample (10 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 0.16 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 0.19 mg/l Fresh water	Fish	96 hours
	Chronic NOEC >0.0464 mg/l Fresh water	Fish	96 hours
Refractive Index Det OQ/PV Test Sample (15 mg/mL) Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	5-Chloro-2-methyl-3(2H)-	Acute LC50 0.16 mg/l Fresh water	Daphnia

Section 12. Ecological information

isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours
Refractive Index Det OQ/ PV Test Sample (25 mg/ mL) Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 0.16 mg/l Fresh water	Daphnia	48 hours
Refractive Index Det OQ/ PV Test Sample (50 mg/ mL) Glycerol	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 54000 mg/l Fresh water Acute LC50 0.16 mg/l Fresh water	Fish - Oncorhynchus mykiss Daphnia	96 hours 48 hours
Refractive Index Det OQ/ PV Test Sample (50 mg/ mL) Glycerol	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 54000 mg/l Fresh water Acute LC50 0.16 mg/l Fresh water	Fish - Oncorhynchus mykiss Daphnia	96 hours 48 hours
Refractive Index Det OQ/ PV Test Sample (50 mg/ mL) Glycerol	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	Acute LC50 54000 mg/l Fresh water Acute LC50 0.16 mg/l Fresh water	Fish - Oncorhynchus mykiss Daphnia	96 hours 48 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Refractive Index Det OQ/ PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	62 % - Readily - 28 days	-	-
Refractive Index Det OQ/ PV Test Sample (10 mg/ mL) 5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	62 % - Readily - 28 days	-	-
Refractive Index Det OQ/ PV Test Sample (15 mg/ mL) Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO ₂ Evolution	62 % - Readily - 28 days	-	-

Section 12. Ecological information

	Test			
Refractive Index Det OQ/ PV Test Sample (25 mg/ mL) Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	62 % - Readily - 28 days	-	-
Refractive Index Det OQ/ PV Test Sample (50 mg/ mL) Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	62 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Refractive Index Det OQ/ PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	-	-	Readily
Refractive Index Det OQ/ PV Test Sample (10 mg/ mL) 5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	-	-	Readily
Refractive Index Det OQ/ PV Test Sample (15 mg/ mL) 5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	-	-	Readily
Refractive Index Det OQ/ PV Test Sample (25 mg/ mL) 5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	-	-	Readily
Refractive Index Det OQ/ PV Test Sample (50 mg/ mL)			

Section 12. Ecological information

5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	-	-	Readily
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Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Refractive Index Det OQ/ PV Test Sample (5 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
Refractive Index Det OQ/ PV Test Sample (10 mg/mL) 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
Refractive Index Det OQ/ PV Test Sample (15 mg/mL) Glycerol	-1.76	-	low
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
Refractive Index Det OQ/ PV Test Sample (25 mg/mL) Glycerol	-1.76	-	low
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
Refractive Index Det OQ/ PV Test Sample (50 mg/mL) Glycerol	-1.76	-	low
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low

Mobility in soil

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

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.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : Not determined.

Japan : **Japan inventory (CSCL):** All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Section 15. Regulatory information

Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> All components are listed or exempted.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

History

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

Date of previous issue : 06/23/2021

Version : 7

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

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> Refractive Index Det OQ/PV Test Sample (5 mg/mL) SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method
Refractive Index Det OQ/PV Test Sample (10 mg/mL) SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method
Refractive Index Det OQ/PV Test Sample (15 mg/mL) SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method
Refractive Index Det OQ/PV Test Sample (25 mg/mL) SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method
Refractive Index Det OQ/PV Test Sample (50 mg/mL) SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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