

# SAFETY DATA SHEET



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

## Section 1. Identification

### 1.1 Product identifier

**Product name** : 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

**Validation date** : 5/17/2022

### 1.2 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 (5 mg/	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

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

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

### 1.4 Emergency telephone number

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

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b> : Refractive Index Det OQ/PV Test Sample (5 mg/mL)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Refractive Index Det OQ/PV Test Sample (10 mg/mL)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Refractive Index Det OQ/PV Test Sample (15 mg/mL)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Refractive Index Det OQ/PV Test Sample (25 mg/mL)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Refractive Index Det OQ/PV Test Sample (50 mg/mL)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

## Section 2. Hazards identification

### Refractive Index Det OQ/PV

#### Test Sample (5 mg/mL)

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

### Refractive Index Det OQ/PV

#### Test Sample (10 mg/mL)

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

### Refractive Index Det OQ/PV

#### Test Sample (15 mg/mL)

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

### Refractive Index Det OQ/PV

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

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

### Refractive Index Det OQ/PV

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

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

## 2.2 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

## Section 2. Hazards identification

	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Warning
<b>Hazard statements</b>	: 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.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)
<b><u>Precautionary statements</u></b>		
<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 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.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)
<b>Response</b>	:  Refractive Index Det OQ/PV Test Sample (5 mg/mL)	P363 - Wash contaminated clothing 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)	P363 - Wash contaminated clothing 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)	P363 - Wash contaminated clothing before reuse.  P302 + P352 - IF ON SKIN: Wash with plenty of water.

## Section 2. Hazards identification

	Refractive Index Det OQ/PV Test Sample (25 mg/mL)	P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P363 - Wash contaminated clothing before reuse.
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P363 - Wash contaminated clothing before reuse.
<b>Storage</b>	: 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.
<b>Disposal</b>	: 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.
<b>Supplemental label elements</b>	: 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.
<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</b>	: 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.

## Section 2. Hazards identification

Refractive Index Det OQ/PV Test Sample (50 mg/mL) None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	:	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

Ingredient name	%	CAS number
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol	≤3	56-81-5
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol	≤3	56-81-5
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	55965-84-9
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol	≤5	56-81-5
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	55965-84-9

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

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

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	:	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	Immediately flush eyes with plenty of water,

## Section 4. First aid measures

	Sample (15 mg/mL)	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, 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

## Section 4. First aid measures

an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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.

### Skin contact

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

: 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.

## Section 4. First aid measures

### 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 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.
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



## Section 4. First aid measures

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.

### 4.2 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)
		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)
		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)
		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.

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

## Section 4. First aid measures

<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.
	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. Fire-fighting measures

### 5.1 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.
<b>Unsuitable extinguishing media</b>	: 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.

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

<b>Specific hazards arising from the chemical</b>	: 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.

## Section 5. Fire-fighting measures

<b>Hazardous thermal decomposition products</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)	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

### 5.3 Advice for firefighters

<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

### 6.1 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 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 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 spilled material. Avoid breathing vapor 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 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	If specialized clothing is required to deal with the

## Section 6. Accidental release measures

Sample (25 mg/mL)		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".
<b>6.2 Environmental precautions</b>	: 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, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

<b>Methods for cleaning up</b>	: 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.

## Section 6. Accidental release measures

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

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.

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

### 7.1 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 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 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



## Section 7. Handling and storage

		<p>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.</p> <p>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.</p>
	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	
<b>Advice on general occupational hygiene</b>	: 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 before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Refractive Index Det OQ/PV Test Sample (50 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.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	: 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

## Section 7. Handling and storage

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

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

### [7.3 Specific end use\(s\)](#)

## Section 7. Handling and storage

<b>Recommendations</b>	:	Refractive Index Det OQ/PV Test Sample (5 mg/mL)	Industrial applications, Professional applications.
		Refractive Index Det OQ/PV Test Sample (10 mg/mL)	Industrial applications, Professional applications.
		Refractive Index Det OQ/PV Test Sample (15 mg/mL)	Industrial applications, Professional applications.
		Refractive Index Det OQ/PV Test Sample (25 mg/mL)	Industrial applications, Professional applications.
		Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	:	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 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	None.
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	None.
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	None.
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	None.

## Section 8. Exposure controls/personal protection

<p>Refractive Index Det OQ/PV Test Sample (50 mg/mL) Glycerol</p> <p>5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone</p>	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p>None.</p>
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### 8.2 Exposure controls

**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

<b>Physical state</b>	: Refractive Index Det OQ/PV Test	Liquid.
	Sample (5 mg/mL)	
	: Refractive Index Det OQ/PV Test	Liquid.
	Sample (10 mg/mL)	
	: Refractive Index Det OQ/PV Test	Liquid.
	Sample (15 mg/mL)	
<b>Color</b>	: Refractive Index Det OQ/PV Test	Liquid.
	Sample (25 mg/mL)	
	: Refractive Index Det OQ/PV Test	Liquid.
	Sample (50 mg/mL)	
	: Refractive Index Det OQ/PV Test	Colorless.
	Sample (5 mg/mL)	
<b>Odor</b>	: Refractive Index Det OQ/PV Test	Colorless.
	Sample (10 mg/mL)	
	: Refractive Index Det OQ/PV Test	Colorless.
	Sample (15 mg/mL)	
	: Refractive Index Det OQ/PV Test	Colorless.
	Sample (25 mg/mL)	
<b>Odor threshold</b>	: Refractive Index Det OQ/PV Test	Colorless.
	Sample (50 mg/mL)	
	: Refractive Index Det OQ/PV Test	Odorless.
	Sample (5 mg/mL)	
	: Refractive Index Det OQ/PV Test	Odorless.
	Sample (10 mg/mL)	
<b>pH</b>	: Refractive Index Det OQ/PV Test	Odorless.
	Sample (15 mg/mL)	
	: Refractive Index Det OQ/PV Test	Odorless.
	Sample (25 mg/mL)	
	: Refractive Index Det OQ/PV Test	Odorless.
	Sample (50 mg/mL)	
<b>Odor threshold</b>	: Refractive Index Det OQ/PV Test	Not available.
	Sample (5 mg/mL)	
	: Refractive Index Det OQ/PV Test	Not available.
	Sample (10 mg/mL)	
	: Refractive Index Det OQ/PV Test	Not available.
	Sample (15 mg/mL)	
<b>pH</b>	: Refractive Index Det OQ/PV Test	Not available.
	Sample (25 mg/mL)	
	: Refractive Index Det OQ/PV Test	Not available.
	Sample (50 mg/mL)	
	: Refractive Index Det OQ/PV Test	7
	Sample (5 mg/mL)	
<b>pH</b>	: Refractive Index Det OQ/PV Test	7
	Sample (10 mg/mL)	
	: Refractive Index Det OQ/PV Test	7
	Sample (15 mg/mL)	
	: Refractive Index Det OQ/PV Test	7
	Sample (25 mg/mL)	
<b>pH</b>	: Refractive Index Det OQ/PV Test	7
	Sample (50 mg/mL)	

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

**Melting point/freezing point** : Refractive Index Det OQ/PV Test 0°C (32°F)  
 Sample (5 mg/mL)  
 Refractive Index Det OQ/PV Test 0°C (32°F)  
 Sample (10 mg/mL)  
 Refractive Index Det OQ/PV Test 0°C (32°F)  
 Sample (15 mg/mL)  
 Refractive Index Det OQ/PV Test 0°C (32°F)  
 Sample (25 mg/mL)  
 Refractive Index Det OQ/PV Test 0°C (32°F)  
 Sample (50 mg/mL)

**Boiling point, initial boiling point, and boiling range** : Refractive Index Det OQ/PV Test 100°C (212°F)  
 Sample (5 mg/mL)  
 Refractive Index Det OQ/PV Test 100°C (212°F)  
 Sample (10 mg/mL)  
 Refractive Index Det OQ/PV Test 100°C (212°F)  
 Sample (15 mg/mL)  
 Refractive Index Det OQ/PV Test 100°C (212°F)  
 Sample (25 mg/mL)  
 Refractive Index Det OQ/PV Test 100°C (212°F)  
 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 Not available.  
 Sample (5 mg/mL)  
 Refractive Index Det OQ/PV Test Not available.  
 Sample (10 mg/mL)  
 Refractive Index Det OQ/PV Test Not available.  
 Sample (15 mg/mL)  
 Refractive Index Det OQ/PV Test Not available.  
 Sample (25 mg/mL)  
 Refractive Index Det OQ/PV Test Not available.  
 Sample (50 mg/mL)

## 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
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b>						
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				
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b>						
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				
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b>						
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				
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b>						
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				

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

isothiazolone						
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b>						
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
<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>10.1 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>10.2 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>10.3 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>10.4 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>10.5 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 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

<b>10.6 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

### 11.1 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> 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	-
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> 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	-
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> 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	-
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> 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	-
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol 5-Chloro-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	-

## Section 11. Toxicological information

isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	LD50 Dermal	Rabbit	87.12 mg/kg	-
	LD50 Oral	Rat	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	-

### 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.

### **Information on the likely routes of exposure**

: 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)

Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.

## Section 11. Toxicological information

	Refractive Index Det OQ/PV Test Sample (50 mg/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
<b>Potential acute health effects</b>		
<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

<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.

## Section 11. Toxicological information

<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.	

### 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

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

## Section 11. Toxicological information

<b>General</b>	: 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.
<b>Carcinogenicity</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>Mutagenicity</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>Reproductive toxicity</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.

### 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

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

### 12.1 Toxicity

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



## Section 12. Ecological information

<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol 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
	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 (50 mg/mL)</b> Glycerol 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
	Acute LC50 0.19 mg/l Fresh water Chronic NOEC >0.0464 mg/l Fresh water	Fish Fish	96 hours 96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	62 % - Readily - 28 days	-	-
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	62 % - Readily - 28 days	-	-
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> 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 <sub>2</sub> Evolution Test	62 % - Readily - 28 days	-	-
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> 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 -	62 % - Readily - 28 days	-	-

## Section 12. Ecological information

<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol	CO <sub>2</sub> Evolution Test			
	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 <sub>2</sub> Evolution Test	62 % - Readily - 28 days	-	-

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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone	0.326	-	low

## Section 12. Ecological information

isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone			
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b>			
Glycerol	-1.76	-	low
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b>			
Glycerol	-1.76	-	low
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b>			
Glycerol	-1.76	-	low
5-Chloro-2-methyl-3(2H)- isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	0.326	-	low

### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

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

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

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

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

## Section 14. Transport information

**DOT / TDG / Mexico / 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

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

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

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

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 302/304

##### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312

<b>Classification</b>	: Refractive Index Det OQ/PV Test Sample (5 mg/mL)	SKIN SENSITIZATION - Category 1
	: Refractive Index Det OQ/PV Test Sample (10 mg/mL)	SKIN SENSITIZATION - Category 1
	: Refractive Index Det OQ/PV Test Sample (15 mg/mL)	SKIN SENSITIZATION - Category 1
	: Refractive Index Det OQ/PV Test Sample (25 mg/mL)	SKIN SENSITIZATION - Category 1
	: Refractive Index Det OQ/PV Test Sample (50 mg/mL)	SKIN SENSITIZATION - Category 1

##### Composition/information on ingredients

Name	%	Classification
<b>Refractive Index Det OQ/PV Test Sample (5 mg/mL)</b> 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract
<b>Refractive Index Det OQ/PV Test Sample (10 mg/mL)</b>		

## Section 15. Regulatory information

5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract
<b>Refractive Index Det OQ/PV Test Sample (15 mg/mL)</b> Glycerol	≤3	EYE IRRITATION - Category 2B
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract
<b>Refractive Index Det OQ/PV Test Sample (25 mg/mL)</b> Glycerol	≤3	EYE IRRITATION - Category 2B
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract
<b>Refractive Index Det OQ/PV Test Sample (50 mg/mL)</b> Glycerol	≤5	EYE IRRITATION - Category 2B
5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)-isothiazolone	<0.025	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract

### State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL

### California Prop. 65

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

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

## Section 15. Regulatory information

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. Other information

### Procedure used to derive the classification

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

### History

<b>Date of issue</b>	: 05/17/2022
<b>Date of previous issue</b>	: 06/23/2021
<b>Version</b>	: 7

### Key to abbreviations

ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

## Section 16. Other information

N/A = Not available

UN = United Nations

📌 Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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