

# SAFETY DATA SHEET

**Luminex**

## xTAG® Cystic Fibrosis (CFTR) 39 kit v2

### Section 1. Identification

**Product identifier** : xTAG® Cystic Fibrosis (CFTR) 39 kit v2

**Product code** :

**Other means of identification** :

<b>Component 1</b>	xTAG® CFTR PCR Primer Mix v2
<b>Component 2</b>	xTAG® CFTR Bead Mix A v2
<b>Component 3</b>	xTAG® CFTR ASPE Primer Mix A v2
<b>Component 4</b>	xTAG® Reporter Buffer
<b>Component 5</b>	Platinum® Tfi Exo(-) DNA Polymerase
<b>Component 6</b>	Platinum® Tfi Reaction Buffer, 5X
<b>Component 7</b>	Tfi 50 mM MgCl <sub>2</sub>
<b>Component 8</b>	xTAG® Shrimp Alkaline Phosphatase
<b>Component 9</b>	xTAG® Exonuclease I
<b>Component 10</b>	xTAG® Streptavidin, R-Phycoerythrin Conjugate

**Product type** : Liquid.

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

**Identified uses** : For Professional use only. Use as per Product Insert.

**Supplier/Manufacturer** : Luminex Molecular Diagnostics, Inc.  
439 University Avenue  
Toronto, Ontario  
Canada M5G 1Y8  
Tel: 1-512-381-4397  
Toll free: 1-877-785-2323 (US and Canada)  
Fax: 1-512-219-5114

**e-mail address of person responsible for this SDS** : Support@Luminexcorp.com

**Emergency telephone number (with hours of operation)** : 1-512-381-4397  
24/7

### Section 2. Hazard(s) identification

**Classification of the substance or mixture** : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

#### GHS label elements for the kit

**Hazard pictograms** :



**Signal word** : **WARNING**

**Hazard statements** : **H319 - Causes serious eye irritation.**  
**H315 - Causes skin irritation.**

#### Precautionary statements



## Section 2. Hazard(s) identification

- Prevention** : P280 - Wear protective gloves. Wear eye or face protection.  
P264 - Wash hands thoroughly after handling.
- Response** : P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water.  
Take off contaminated clothing. Wash contaminated clothing before reuse.  
P332 + P313 - If skin irritation occurs: Get medical attention.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 - If eye irritation persists: Get medical attention.
- Storage** : Not applicable.
- Disposal** : Not applicable.

### GHS label elements by component

**Hazard pictograms** : Component 6



**Signal word** : Component 1 No signal word.  
Component 2 No signal word.  
Component 3 No signal word.  
Component 4 No signal word.  
Component 5 No signal word.  
Component 6 WARNING  
Component 7 No signal word.  
Component 8 No signal word.  
Component 9 No signal word.  
Component 10 No signal word.

**Hazard statements** : Component 1 No known significant effects or critical hazards.  
Component 2 No known significant effects or critical hazards.  
Component 3 No known significant effects or critical hazards.  
Component 4 No known significant effects or critical hazards.  
Component 5 No known significant effects or critical hazards.  
Component 6 H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
Component 7 No known significant effects or critical hazards.  
Component 8 No known significant effects or critical hazards.  
Component 9 No known significant effects or critical hazards.  
Component 10 No known significant effects or critical hazards.

### Precautionary statements

## Section 2. Hazard(s) identification

<b>Prevention</b>	:	<b>Component 1</b>	Not applicable.
		<b>Component 2</b>	Not applicable.
		<b>Component 3</b>	Not applicable.
		<b>Component 4</b>	Not applicable.
		<b>Component 5</b>	Not applicable.
		<b>Component 6</b>	P280 - Wear protective gloves. Wear eye or face protection. P264 - Wash hands thoroughly after handling.
		<b>Component 7</b>	Not applicable.
		<b>Component 8</b>	Not applicable.
		<b>Component 9</b>	Not applicable.
		<b>Component 10</b>	Not applicable.
<b>Response</b>	:	<b>Component 1</b>	Not applicable.
		<b>Component 2</b>	Not applicable.
		<b>Component 3</b>	Not applicable.
		<b>Component 4</b>	Not applicable.
		<b>Component 5</b>	Not applicable.
		<b>Component 6</b>	P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
		<b>Component 7</b>	Not applicable.
		<b>Component 8</b>	Not applicable.
		<b>Component 9</b>	Not applicable.
		<b>Component 10</b>	Not applicable.
<b>Storage</b>	:	<b>Component 1</b>	Not applicable.
		<b>Component 2</b>	Not applicable.
		<b>Component 3</b>	Not applicable.
		<b>Component 4</b>	Not applicable.
		<b>Component 5</b>	Not applicable.
		<b>Component 6</b>	Not applicable.
		<b>Component 7</b>	Not applicable.
		<b>Component 8</b>	Not applicable.
		<b>Component 9</b>	Not applicable.
		<b>Component 10</b>	Not applicable.
<b>Disposal</b>	:	<b>Component 1</b>	Not applicable.
		<b>Component 2</b>	Not applicable.
		<b>Component 3</b>	Not applicable.
		<b>Component 4</b>	Not applicable.
		<b>Component 5</b>	Not applicable.
		<b>Component 6</b>	Not applicable.
		<b>Component 7</b>	Not applicable.
		<b>Component 8</b>	Not applicable.
		<b>Component 9</b>	Not applicable.
		<b>Component 10</b>	Not applicable.
<b>Supplemental label elements</b>	:	Not applicable.	
<b>Other hazards which do not result in classification</b>	:	None known.	

## Section 3. Composition and ingredient information

**Substance/mixture** : Mixture

Ingredient name	% (w/w)	CAS number
<b>Component 5</b> Glycerol	≥10 - ≤30	56-81-5
<b>Component 6</b> Glycerol Potassium hydroxide	≥10 - ≤30 ≥1 - <3	56-81-5 1310-58-3
<b>Component 8</b> Glycerol	≥60 - ≤75	56-81-5
<b>Component 9</b> Glycerol	≥30 - ≤60	56-81-5

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

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

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : 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 20 minutes. Get medical attention.
- Inhalation** : Not applicable.
- Skin contact** : Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Not applicable.

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

#### Potential acute health effects

- Eye contact** :
- Component 1** No known significant effects or critical hazards.
  - Component 2** No known significant effects or critical hazards.
  - Component 3** No known significant effects or critical hazards.
  - Component 4** No known significant effects or critical hazards.
  - Component 5** No known significant effects or critical hazards.
  - Component 6** Causes serious eye irritation.
  - Component 7** No known significant effects or critical hazards.
  - Component 8** No known significant effects or critical hazards.
  - Component 9** No known significant effects or critical hazards.
  - Component 10** No known significant effects or critical hazards.
- Inhalation** :
- Component 1** No known significant effects or critical hazards.
  - Component 2** No known significant effects or critical hazards.
  - Component 3** No known significant effects or critical hazards.
  - Component 4** No known significant effects or critical hazards.
  - Component 5** No known significant effects or critical hazards.
  - Component 6** No known significant effects or critical hazards.
  - Component 7** No known significant effects or critical hazards.
  - Component 8** No known significant effects or critical hazards.
  - Component 9** No known significant effects or critical hazards.
  - Component 10** No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Skin contact</b>	<b>: Component 1</b>	No known significant effects or critical hazards.
	<b>Component 2</b>	No known significant effects or critical hazards.
	<b>Component 3</b>	No known significant effects or critical hazards.
	<b>Component 4</b>	No known significant effects or critical hazards.
	<b>Component 5</b>	No known significant effects or critical hazards.
	<b>Component 6</b>	Causes skin irritation.
	<b>Component 7</b>	No known significant effects or critical hazards.
	<b>Component 8</b>	No known significant effects or critical hazards.
	<b>Component 9</b>	No known significant effects or critical hazards.
	<b>Component 10</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	<b>: Component 1</b>	No known significant effects or critical hazards.
	<b>Component 2</b>	No known significant effects or critical hazards.
	<b>Component 3</b>	No known significant effects or critical hazards.
	<b>Component 4</b>	No known significant effects or critical hazards.
	<b>Component 5</b>	No known significant effects or critical hazards.
	<b>Component 6</b>	No known significant effects or critical hazards.
	<b>Component 7</b>	No known significant effects or critical hazards.
	<b>Component 8</b>	No known significant effects or critical hazards.
	<b>Component 9</b>	No known significant effects or critical hazards.
	<b>Component 10</b>	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	<b>:</b>	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	<b>:</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	<b>:</b>	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	<b>:</b>	No known significant effects or critical hazards.

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

<b>Notes to physician</b>	<b>:</b>	None identified.
<b>Specific treatments</b>	<b>:</b>	No specific treatment.
<b>Protection of first-aiders</b>	<b>:</b>	No special measures required.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	<b>:</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	<b>:</b>	None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.



## Section 5. Firefighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : No special requirements.

### Methods and material for containment and cleaning up

- Spill** : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations.  
Component 1-9: Store at -25°C to -15°C.  
Component 10: Store at 2°C to 6°C.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>Component 5</b> Glycerol	<b>Safe Work Australia (Australia, 4/2018).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Component 6</b> Glycerol  Potassium hydroxide	<b>Safe Work Australia (Australia, 4/2018).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. <b>Safe Work Australia (Australia, 4/2018).</b> PEAK: 2 mg/m <sup>3</sup> 8 hours.
<b>Component 8</b> Glycerol	<b>Safe Work Australia (Australia, 4/2018).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Component 9</b> Glycerol	<b>Safe Work Australia (Australia, 4/2018).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

**Appropriate engineering controls** : No special ventilation requirements.

**Environmental exposure controls** : No special measures required.

#### Individual protection measures

**Hygiene measures** : Follow good industrial hygiene practice.

**Eye/face protection** : Not required under normal conditions of use.

#### Skin protection

**Hand protection** : Not required under normal conditions of use.

**Body protection** : Not required under normal conditions of use.

**Other skin protection** : Not required under normal conditions of use.

**Respiratory protection** : Not required under normal conditions of use.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : **Component 1** Liquid. [Clear.]  
**Component 2** Liquid. [Clear.]  
**Component 3** Liquid. [Clear.]  
**Component 4** Liquid. [Clear.]  
**Component 5** Liquid. [Clear.]  
**Component 6** Liquid. [Clear.]  
**Component 7** Liquid. [Clear.]  
**Component 8** Liquid. [Clear./Viscous.]  
**Component 9** Liquid. [Clear./Viscous.]  
**Component 10** Liquid. [Clear.]

**Colour** : **Component 1** Colourless.  
**Component 2** Colourless.  
**Component 3** Colourless.  
**Component 4** Colourless.  
**Component 5** Colourless.  
**Component 6** Colourless.  
**Component 7** Colourless.  
**Component 8** Colourless.

## Section 9. Physical and chemical properties

	<b>Component 9</b>	Colourless.
	<b>Component 10</b>	Pink. [Light]
<b>Odour</b>	<b>Component 1</b>	Odourless.
	<b>Component 2</b>	Odourless.
	<b>Component 3</b>	Odourless.
	<b>Component 4</b>	Odourless.
	<b>Component 5</b>	Odourless.
	<b>Component 6</b>	Odourless.
	<b>Component 7</b>	Odourless.
	<b>Component 8</b>	Odourless.
	<b>Component 9</b>	Odourless.
	<b>Component 10</b>	Odourless.
<b>Odour threshold</b>		: Not available.
<b>pH</b>	<b>Component 1</b>	Not available.
	<b>Component 2</b>	Not available.
	<b>Component 3</b>	Not available.
	<b>Component 4</b>	Not available.
	<b>Component 5</b>	Not available.
	<b>Component 6</b>	6 to 8 [Conc. (% w/w): 100%]
	<b>Component 7</b>	Not available.
	<b>Component 8</b>	6 to 8 [Conc. (% w/w): 100%]
	<b>Component 9</b>	Not available.
	<b>Component 10</b>	Not available.
<b>Melting point</b>		: Not available.
<b>Boiling point</b>	<b>Component 1</b>	Not available.
	<b>Component 2</b>	Not available.
	<b>Component 3</b>	Not available.
	<b>Component 4</b>	Not available.
	<b>Component 5</b>	Not available.
	<b>Component 6</b>	Not available.
	<b>Component 7</b>	Not available.
	<b>Component 8</b>	Not available.
	<b>Component 9</b>	Not available.
	<b>Component 10</b>	Not available.
<b>Flash point</b>	<b>Component 1</b>	Not available.
	<b>Component 2</b>	Not available.
	<b>Component 3</b>	Not available.
	<b>Component 4</b>	Not available.
	<b>Component 5</b>	Not available.
	<b>Component 6</b>	Not available.
	<b>Component 7</b>	Not available.
	<b>Component 8</b>	Not available.
	<b>Component 9</b>	Not available.
	<b>Component 10</b>	Not available.
<b>Evaporation rate</b>		: Not available.
<b>Flammability (solid, gas)</b>		: Not available.
<b>Lower and upper explosive (flammable) limits</b>		: Not available.



## Section 9. Physical and chemical properties

<b>Vapour pressure</b>	: Component 1	Not available.
	Component 2	Not available.
	Component 3	Not available.
	Component 4	Not available.
	Component 5	Not available.
	Component 6	Not available.
	Component 7	Not available.
	Component 8	Not available.
	Component 9	Not available.
	Component 10	Not available.
<b>Vapour density</b>	: Component 1	Not available.
	Component 2	Not available.
	Component 3	Not available.
	Component 4	Not available.
	Component 5	Not available.
	Component 6	Not available.
	Component 7	Not available.
	Component 8	Not available.
	Component 9	Not available.
	Component 10	Not available.
<b>Relative density</b>	: Component 1	Not available.
	Component 2	Not available.
	Component 3	Not available.
	Component 4	Not available.
	Component 5	Not available.
	Component 6	Not available.
	Component 7	Not available.
	Component 8	Not available.
	Component 9	Not available.
	Component 10	Not available.
<b>Solubility</b>	: Component 1	Not available.
	Component 2	Not available.
	Component 3	Not available.
	Component 4	Not available.
	Component 5	Not available.
	Component 6	Not available.
	Component 7	Not available.
	Component 8	Easily soluble in the following materials: cold water and hot water.
	Component 9	Easily soluble in the following materials: cold water and hot water.
	Component 10	Easily soluble in the following materials: cold water and hot water.
<b>Solubility in water</b>	: Not available.	
<b>Partition coefficient: n-octanol/water</b>	: Not available.	
<b>Auto-ignition temperature</b>	: Not available.	
<b>Decomposition temperature</b>	: Not available.	

## Section 9. Physical and chemical properties

<b>Viscosity</b>	<b>Component 1</b>	Not available.
	<b>Component 2</b>	Not available.
	<b>Component 3</b>	Not available.
	<b>Component 4</b>	Not available.
	<b>Component 5</b>	Not available.
	<b>Component 6</b>	Not available.
	<b>Component 7</b>	Not available.
	<b>Component 8</b>	Not available.
	<b>Component 9</b>	Not available.
	<b>Component 10</b>	Not available.

**Flow time (ISO 2431)** : Not available.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

<b>Chemical stability</b>	<b>Component 1</b>	The product is stable.
	<b>Component 2</b>	The product is stable.
	<b>Component 3</b>	The product is stable.
	<b>Component 4</b>	The product is stable.
	<b>Component 5</b>	The product is stable.
	<b>Component 6</b>	The product is stable.
	<b>Component 7</b>	The product is stable.
	<b>Component 8</b>	The product is stable.
	<b>Component 9</b>	The product is stable.
	<b>Component 10</b>	The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

<b>Conditions to avoid</b>	<b>Component 1</b>	No specific data.
	<b>Component 2</b>	No specific data.
	<b>Component 3</b>	No specific data.
	<b>Component 4</b>	No specific data.
	<b>Component 5</b>	No specific data.
	<b>Component 6</b>	No specific data.
	<b>Component 7</b>	No specific data.
	<b>Component 8</b>	No specific data.
	<b>Component 9</b>	No specific data.
	<b>Component 10</b>	No specific data.

<b>Incompatible materials</b>	<b>Component 1</b>	Reactive or incompatible with the following materials: oxidising materials.
	<b>Component 2</b>	Reactive or incompatible with the following materials: oxidising materials.
	<b>Component 3</b>	Reactive or incompatible with the following materials: oxidising materials.
	<b>Component 4</b>	Reactive or incompatible with the following materials: oxidising materials.
	<b>Component 5</b>	Reactive or incompatible with the following materials: oxidising materials.
	<b>Component 6</b>	Reactive or incompatible with the following materials: oxidising materials.

## Section 10. Stability and reactivity

<b>Component 7</b>	Reactive or incompatible with the following materials: oxidising materials.
<b>Component 8</b>	Reactive or incompatible with the following materials: oxidising materials.
<b>Component 9</b>	Reactive or incompatible with the following materials: oxidising materials.
<b>Component 10</b>	Reactive or incompatible with the following materials: oxidising materials.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>Component 5</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Component 6</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Component 8</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Component 9</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Component 5</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Component 6</b> Glycerol  Potassium hydroxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 1 mg	-
	Skin - Severe irritant	Guinea pig	-	24 hours 50 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 50 mg	-
<b>Component 8</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Component 9</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitisation

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.



## Section 11. Toxicological information

### Teratogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

### Aspiration hazard

There is no data available.

**Information on likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

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

- Eye contact** : Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Adverse symptoms may include the following:
  - irritation
  - redness
- Ingestion** : No known significant effects or critical hazards.

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

#### Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Component 6 Oral	33333.33 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Component 6 Potassium hydroxide	Acute LC50 80 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Component 5 Glycerol	-1.76	-	low
Component 6 Glycerol	-1.76	-	low
Component 8 Glycerol	-1.76	-	low
Component 9 Glycerol	-1.76	-	low

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. No specific disposal consideration.

## Section 14. Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

**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.

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

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

No listed substance

**Australia inventory (AICS)** : Not determined.

## Section 16. Any other relevant information

### Procedure used to derive the classification

Classification	Justification
<b>Component 6</b> SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method Calculation method

### History

**Date of issue** : 15/06/2019

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### **Key to abbreviations**

: ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships,



## Section 16. Any other relevant information

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOHSC = National Occupational Health and Safety Commission

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

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