**Date** : 15/06/2019

Version : 1

# SAFETY DATA SHEET



xTAG® Cystic Fibrosis (CFTR) 39 kit v2

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

**Product name** : xTAG<sup>®</sup> Cystic Fibrosis (CFTR) 39 kit v2

**Product code** 

**Product description** : Not available.

**Component name** : Component 1 xTAG® CFTR PCR Primer Mix v2

> Component 2 xTAG® CFTR Bead Mix A v2

Component 3 xTAG® CFTR ASPE Primer Mix A v2

xTAG® Reporter Buffer Component 4

Component 5 Platinum® Tfi Exo(-) DNA Polymerase Platinum® Tfi Reaction Buffer, 5X Component 6

Component 7 Tfi 50 mM MaCl<sub>2</sub>

Component 8 xTAG® Shrimp Alkaline Phosphatase

xTAG® Exonuclease I Component 9

Component 10 xTAG® Streptavidin, R-Phycoerythrin Conjugate

**Product type** : Liquid.

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

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

1.3 Details of the supplier of the safety data sheet

Supplier's details : 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

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number

**Emergency telephone** number (with hours of : 1-512-381-4397

24/7

operation)



**Document No. :** 

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Component 6 Skin Irrit. 2, H315 Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

### GHS label elements for the kit

**Hazard pictograms** 



Signal word : Warning

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

H315 - Causes skin irritation.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

Response : P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Storage : Not applicable.

Disposal : Not applicable.

**GHS label elements by component** 

Hazard pictograms : Component 6



Signal word : Component 1 No signal word.

Component 2
Component 3
Component 4
Component 5
No signal word.
No signal word.
No signal word.
No signal word.

Component 6 Warning

Component 7 No signal word.
Component 8 No signal word.

# **SECTION 2: Hazards identification**

SECTION 2. Hazarus	identification	
	Component 9 Component 10	No signal word. No signal word.
Hazard statements	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7	No known significant effects or critical hazards.  H319 - Causes serious eye irritation.  H315 - Causes skin irritation.  No known significant effects or critical hazards.
	Component 8	No known significant effects or critical hazards.  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	·	•
Prevention	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves. Wear eye or face protection.
	Component 7 Component 8 Component 9 Component 10	P264 - Wash hands thoroughly after handling. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Component 7 Component 8 Component 9	Not applicable. Not applicable. Not applicable.
Storage	Component 10 : Component 1	Not applicable. Not applicable.
	Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10	Not applicable.
Disposal	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8	Not applicable.

xTAG® Cystic Fibrosis (CFTR) 39 kit v2

### **SECTION 2: Hazards identification**

Component 9
Component 10

Not applicable.

Not applicable.

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Component 5				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Component 6				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Potassium hydroxide	EC: 215-181-3 CAS: 1310-58-3 Index: 019-002-00-8	≥1 - <2	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Component 8				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Component 9				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**Type** 



## SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

### **SECTION 4: First aid measures**

#### 4.1 Description of 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.

**Protection of first-aiders** : No special measures required.

### 4.2 Most important symptoms and effects, both 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 affacts or critical bazarda

**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
 Component 8
 Component 9
 Component 10
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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. No known significant effects or critical hazards. Component 7 **Component 8** No known significant effects or critical hazards. No known significant effects or critical hazards. **Component 9** No known significant effects or critical hazards. **Component 10** 

Skin contact : Component 1 No known significant effects or critical hazards.

Component 2
Component 3
Component 4
Component 5
No known significant effects or critical hazards.

Component 6 Irritating to skin.

**Document No. :** 

Component 7

Component 8

Component 9

Component 10

No known significant effects or critical hazards.

### **SECTION 4: First aid measures**

Ingestion

No known significant effects or critical hazards. : Component 1 **Component 2** No known significant effects or critical hazards. No known significant effects or critical hazards. **Component 3 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. 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

### Over-exposure signs/symptoms

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.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : None identified. **Specific treatments** : No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

: None known.

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

Hazards from the substance or mixture : No specific fire or explosion hazard.

**Hazardous combustion** 

products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

#### 5.3 Advice for firefighters

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

### 6.1 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".

**6.2 Environmental precautions** 

: No special requirements.

### 6.3 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.

6.4 Reference to other sections

.

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8).

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.

### 7.2 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.

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

**Occupational exposure limits** 

## **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Exposure limit values
Component 5	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m³ 8 hours. Form: Mist
Component 6	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m³ 8 hours. Form: Mist
Potassium hydroxide	EH40/2005 WELs (United Kingdom (UK), 8/2018). STEL: 2 mg/m³ 15 minutes.
Component 8	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m³ 8 hours. Form: Mist
Component 9	
Glycerol	EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m³ 8 hours. Form: Mist

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Component 6 Potassium hydroxide	DNEL	Long term Inhalation	1 mg/m³	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Local

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

: No special ventilation requirements.

#### **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.

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

controls

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	A			
	AD	pea	ran	ce

Physical state : Component 1 Liquid. [Clear.]
Component 2 Liquid. [Clear.]
Component 3 Liquid. [Clear.]
Component 4 Liquid. [Clear.]
Component 5 Liquid. [Clear.]

Component 5
Component 6
Component 7
Liquid. [Clear.]
Liquid. [Clear.]
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. **Component 9** Colourless. **Component 10** Pink. [Light]

Odour : Component 1 Odourless.

Component 2 Odourless. **Component 3** Odourless. Component 4 Odourless. Component 5 Odourless. **Component 6** Odourless. Component 7 Odourless. **Component 8** Odourless. Component 9 Odourless. **Component 10** Odourless.

Odour threshold : Not available.

pH : Component 1 Not available.

Component 2Not available.Component 3Not available.Component 4Not available.Component 5Not available.

**Component 6** 6 to 8 [Conc. (% w/w): 100%]

Component 7 Not available.

**Component 8** 6 to 8 [Conc. (% w/w): 100%]

Component 9 Not available. Not available.

**Melting point/freezing point** 

Initial boiling point and boiling

range

: Not available.
: 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. Not available. **Component 9 Component 10** Not available.

# **SECTION 9: Physical and chemical properties**

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Flash point	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10	Not available.
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Upper/lower flammability or explosive limits	: Not available.	
Vapour pressure	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10	Not available.
Vapour density	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10	Not available.
Relative density	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10	Not available.
Solubility(ies)	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8	Not available. Easily soluble in the following materials: cold water and hot water.

## **SECTION 9: Physical and chemical properties**

Component 9 Easily soluble in the following materials: cold water and hot

**Component 10** Easily soluble in the following materials: cold water and hot

water.

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** 

**Decomposition temperature** 

**Viscosity** 

: Not available. : Not available.

: 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.

: Not available. **Explosive properties Oxidising properties** Not available.

## SECTION 10: Stability and reactivity

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

10.2 Chemical stability : Component 1 The product is stable.

**Component 2** The product is stable. Component 3 The product is stable. Component 4 The product is stable. **Component 5** The product is stable. Component 6 The product is stable. **Component 7** The product is stable. **Component 8** The product is stable. The product is stable. Component 9 **Component 10** The product is stable.

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

10.4 Conditions to avoid : Component 1 No specific data.

**Document No. :** 

Component 2 No specific data. Component 3 No specific data. Component 4 No specific data. Component 5 No specific data. **Component 6** No specific data. **Component 7** No specific data. **Component 8** No specific data. **Component 9** No specific data. **Component 10** No specific data.

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# **SECTION 10: Stability and reactivity**

10.5 Incompatible materials	: Component 1	Reactive or incompatible with the following materials:
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oxidising materials.

**Component 2** Reactive or incompatible with the following materials:

oxidising materials.

**Component 3** Reactive or incompatible with the following materials:

oxidising materials.

**Component 4** Reactive or incompatible with the following materials:

oxidising materials.

**Component 5** Reactive or incompatible with the following materials:

oxidising materials.

**Component 6** Reactive or incompatible with the following materials:

oxidising materials.

**Component 7** Reactive or incompatible with the following materials:

oxidising materials.

**Component 8** Reactive or incompatible with the following materials:

oxidising materials.

**Component 9** Reactive or incompatible with the following materials:

oxidising materials.

**Component 10** Reactive or incompatible with the following materials:

oxidising materials.

10.6 Hazardous decomposition products

: 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**

There is no data available.

#### **Acute toxicity estimates**

Route	ATE value
Component 6 Oral	33333.33 mg/kg

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Component 6 Potassium hydroxide	Eyes - Moderate irritant Skin - Severe irritant Skin - Severe irritant	Rabbit Guinea pig Rabbit	-	24 hours 1 mg 24 hours 50 mg 24 hours 50 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.

#### **Teratogenicity**

There is no data available.

Specific target organ toxicity (single exposure)

**Document No. :** 



# **SECTION 11: Toxicological information**

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

Potential acute nealth 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.
Skin 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	Irritating to skin.
	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.
Ingestion	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.
	<u> </u>	

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Component 7

**Component 8** 

Component 9
Component 10

KKK Regulatory Services

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## **SECTION 11: Toxicological information**

**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 : No known significant effects or critical hazards.

effects

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

Long term exposure

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

effects

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.

Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

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

#### 12.2 Persistence and degradability

There is no data available.

#### 12.3 Bioaccumulative potential

There is no data available.

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Mobility : Not available.

KW KMK Regulatory Services

Document No. : 14/17

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# SECTION 12: Ecological information

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable. **vPvB** : Not applicable.

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

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

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

Hazardous waste

**Packaging** 

: The classification of the product may meet the criteria for a hazardous waste.

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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**

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

EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles
Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

### **SECTION 16: Other information**

**Abbreviations and acronyms**: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Component 6 Skin Irrit. 2, H315 Eye Irrit. 2, H319	Calculation method Calculation method	

#### Full text of abbreviated H statements

Component 6	
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

### Full text of classifications [CLP/GHS]



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### **SECTION 16: Other information**

Component 6	
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Met. Corr. 1, H290	CORROSIVE TO METALS - Category 1
Skin Corr. 1A, H314	SKIN CORROSION/IRRITATION - Category 1A
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2

### **History**

Date of issue (dd/mm/yyyy) : 15/06/2019

Date of previous issue : Not applicable

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