SAFETY DATA SHEET



xTAG® Cystic Fibrosis (CFTR) 60 kit v2, xTAG® Cystic Fibrosis (CFTR)

71 kit v2

| Section 1. Identification | | |
|--|--|--|
| Product identifier Product code | : xTAG [®] Cystic Fibrosis (CFTR) 60 kit v2, xTAG® Cystic Fibrosis (CFTR) 71 kit v2 | |
| Other means of identification | : Component 1 xTAG [®] CFTR PCR Mix v2 Component 2 xTAG [®] CFTR Bead Mix A v2 Component 3 xTAG [®] CFTR Bead Mix B v2 Component 4 xTAG [®] CFTR ASPE Mix A v2 Component 5 xTAG [®] CFTR ASPE Mix B v2 Component 6 xTAG [®] Reporter Buffer Component 7 Platinum Tfi Exo(-) DNA Polymerase Component 8 Platinum Tfi Reaction Buffer, 5x Component 9 Tfi 50mM MgCl2 Component 10 xTAG [®] Shrimp Alkaline Phosphatase Component 11 xTAG [®] Exonuclease I Component 12 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 |
|---|--|
| GHS label elements for the k Hazard pictograms | |
| | |
| Signal word | : WARNING |

Section 2. Hazard(s) identification

| : H315 - Causes skin irritation. |
|---|
| |
| : P280 - Wear protective gloves. P264 - Wash hands thoroughly after handling. |
| 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. |
| : Not applicable. |
| : Not applicable. |
| |

GHS label elements by component

| Hazard pictograms : Com |
|-------------------------|
|-------------------------|



| Signal word | : Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10 Component 11 | No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. WARNING No signal word. No signal word. No signal word. No signal word. |
|-------------------|---|--|
| | Component 12 | No signal word. |
| Hazard statements | : Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10 Component 11 Component 12 | No known significant effects or critical hazards. No known significant effects or critical hazards. H315 - Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. |

Precautionary statements



Section 2. Hazard(s) identification

| Prevention | : Component 1 | Not applicable. |
|------------|---------------|--|
| | Component 2 | Not applicable. |
| | Component 3 | Not applicable. |
| | Component 4 | Not applicable. |
| | Component 5 | Not applicable. |
| | Component 6 | Not applicable. |
| | Component 7 | Not applicable. |
| | Component 8 | P280 - Wear protective gloves. |
| | - | P264 - Wash hands thoroughly after handling. |
| | Component 9 | Not applicable. |
| | Component 10 | Not applicable. |
| | Component 11 | Not applicable. |
| | Component 12 | Not applicable. |
| Response | : Component 1 | Not applicable. |
| Response | Component 2 | Not applicable. |
| | Component 3 | Not applicable. |
| | Component 4 | Not applicable. |
| | Component 5 | Not applicable. |
| | Component 6 | |
| | - | Not applicable. |
| | Component 7 | Not applicable. |
| | Component 8 | 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. |
| | Component Q | |
| | Component 9 | Not applicable. |
| | Component 10 | Not applicable. |
| | Component 11 | Not applicable. |
| | Component 12 | Not applicable. |
| Storage | : Component 1 | Not applicable. |
| | Component 2 | Not applicable. |
| | Component 3 | Not applicable. |
| | Component 4 | Not applicable. |
| | Component 5 | Not applicable. |
| | Component 6 | Not applicable. |
| | Component 7 | Not applicable. |
| | Component 8 | Not applicable. |
| | Component 9 | Not applicable. |
| | Component 10 | Not applicable. |
| | Component 11 | Not applicable. |
| | Component 12 | Not applicable. |
| Disposal | : Component 1 | Not applicable. |
| | Component 2 | Not applicable. |
| | Component 3 | Not applicable. |
| | Component 4 | Not applicable. |
| | Component 5 | Not applicable. |
| | Component 6 | Not applicable. |
| | Component 7 | Not applicable. |
| | Component 8 | Not applicable. |
| | Component 9 | Not applicable. |
| | Component 10 | Not applicable. |
| | Component 11 | Not applicable. |
| | Component 12 | Not applicable. |
| | | |



Section 2. Hazard(s) identification

Supplemental label elements

: Not applicable.

Other hazards which do not : None known. result in classification

Section 3. Composition and ingredient information

Substance/mixture

: Mixture

| Ingredient name | % (w/w) | CAS number |
|--|----------------------|----------------------|
| Component 7 Glycerol | ≥10 - ≤30 | 56-81-5 |
| Component 8 Glycerol Potassium hydroxide | ≥10 - ≤30 ≥1 - ≤3 | 56-81-5 1310-58-3 |
| Component 10 Glycerol | ≥60 - ≤75 | 56-81-5 |
| Component 11 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 | 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. |
| | Component 11 | No known significant effects or critical hazards. |
| | Component 12 | No known significant effects or critical hazards. |



Section 4. First aid measures

| 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. |
| | Component 11 | No known significant effects or critical hazards. |
| | Component 12 | 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 | No known significant effects or critical hazards. |
| | Component 7 | No known significant effects or critical hazards. |
| | Component 8 | Causes skin irritation. |
| | Component 9 | No known significant effects or critical hazards. |
| | Component 10 | No known significant effects or critical hazards. |
| | Component 11 | No known significant effects or critical hazards. |
| | Component 12 | 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. |
| | 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. |
| | Component 11 | No known significant effects or critical hazards. |
| | Component 12 | No known significant effects or critical hazards. |
| Over-exposure signs/sympto | <u>ms</u> | |
| Eye contact | : Adverse symptoms i pain or irritation watering redness | may include the following: |
| Inhalation | : No known significan | t effects or critical hazards. |
| | - | may include the following: |
| Indection | | t effects or critical hazards. |
| Ingestion | NO KHOWH SIGHIICAH | |
| Indication of immediate medic | al attention and spec | ial treatment needed, if necessary |
| Notes to physician | : None identified. | |
| | No specific treatmer | ht |
| | • | |
| Frotection of first-alders | No special measure | s required. |



Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : No specific fire or explosion hazard. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| 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 | 1 | 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 | 1 | 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. |

Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Component 1-11: Store at -25°C to -15°C. Component 12: Store at 2°C to 6°C.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---------------------|---|
| Component 7 | |
| Glycerol | Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours. |
| Component 8 | |
| Glycerol | Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours. |
| Potassium hydroxide | Safe Work Australia (Australia, 4/2018). PEAK: 2 mg/m ³ 8 hours. |
| Component 10 | |
| Glycerol | Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours. |
| Component 11 | |
| Glycerol | Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 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

| : Component 1 | Liquid. |
|---------------|--|
| Component 2 | Liquid. |
| Component 3 | Liquid. |
| Component 4 | Liquid. |
| Component 5 | Liquid. |
| Component 6 | Liquid. |
| Component 7 | Liquid. |
| Component 8 | Liquid. |
| Component 9 | Liquid. |
| Component 10 | Liquid. [Clear. Viscous.] |
| | Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 |



Section 9. Physical and chemical properties

| | Component 11 Component 12 | Liquid. [Clear. Viscous.] Liquid. |
|-----------------|------------------------------|--------------------------------------|
| 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 | Colourless. |
| | Component 11 | Colourless. |
| | Component 12 | 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. |
| | Component 11 | Odourless. |
| | Component 12 | Odourless. |
| | • | Oddaness. |
| | Not available. | |
| рН : | 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 | 6 to 8 |
| | Component 9 | Not available. |
| | Component 10 | Not available. |
| | Component 11 | Not available. |
| | Component 12 | Not available. |
| Melting point : | Hot available | |
| Boiling point : | | 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. |
| | Component 11 | Not available. |
| | Component 12 | Not available. |
| | | |



Section 9. Physical and chemical properties

| jjjjjj | | | P P |
|--|---|----------------------------|----------------------------------|
| Flash point | 1 | 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. |
| | | Component 11 | Not available. |
| | | Component 12 | Not available. |
| Evaporation rate | 1 | Not available. | |
| Flammability (solid, gas) | 1 | Not available. | |
| Lower and upper explosive (flammable) limits | : | Not available. | |
| Vapour pressure | 1 | 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. |
| | | Component 11 | Not available. |
| | | Component 12 | Not available. |
| Vapour density | 1 | Component 1 | Not available. |
| | | Component 2 | Not available. |
| | | Component 3 | Not available. |
| | | Component 4 | Not available. |
| | | Component 5 | Not available. |
| | | Component 6 | Not available. Not available. |
| | | Component 7 Component 8 | Not available. |
| | | Component 9 | Not available. |
| | | Component 10 | Not available. |
| | | Component 11 | Not available. |
| | | Component 12 | Not available. |
| Relative density | | 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. |
| | | Component 11 | Not available. |
| | | Component 12 | Not available. |
| | | | |



Section 9. Physical and chemical properties

| • | | | |
|--|---|----------------|----------------|
| Solubility | 1 | 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. |
| | | Component 11 | Not available. |
| | | Component 12 | Not available. |
| Solubility in water | 1 | Not available. | |
| Partition coefficient: n- octanol/water | 1 | Not available. | |
| Auto-ignition temperature | : | Not available. | |
| Decomposition temperature | : | Not available. | |
| Viscosity | 1 | 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. |
| | | Component 11 | Not available. |
| | | Component 12 | Not available. |
| Flow time (ISO 2431) | 1 | Not available. | |

Section 10. Stability and reactivity

Reactivity

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

| : Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10 Component 11 | The product is stable. The product is stable. |
|---|--|
| Component 12 | The product is stable. |
| | Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10 Component 11 |

Possibility of hazardous reactions

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

Section 10. Stability and reactivity

| | | - |
|------------------------|------------------|---|
| Conditions to avoid | : Component 1 | No specific data. |
| | 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. |
| | Component 11 | No specific data. |
| | Component 12 | No specific data. |
| Incompatible materials | : Component 1 | Reactive or incompatible with the following materials: 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: |
| | O a man a mant C | oxidising materials. |
| | Component 6 | Reactive or incompatible with the following materials: |
| | Component 7 | oxidising materials. |
| | Component / | Reactive or incompatible with the following materials: oxidising materials. |
| | Component 8 | Reactive or incompatible with the following materials: |
| | Component o | oxidising materials. |
| | Component 9 | Reactive or incompatible with the following materials: |
| | | oxidising materials. |
| | Component 10 | Reactive or incompatible with the following materials: |
| | | oxidising materials. |
| | Component 11 | Reactive or incompatible with the following materials: |
| | | oxidising materials. |
| | Component 12 | Reactive or incompatible with the following materials: |
| | | oxidising materials. |
| | | 0 |

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** Dose Result **Species Exposure** Component 7 12600 mg/kg Glycerol LD50 Oral Rat **Component 8** Glycerol LD50 Oral Rat 12600 mg/kg **Component 10** LD50 Oral Rat Glycerol 12600 mg/kg Component 11

Section 11. Toxicological information

| Glycerol | LD50 Oral | Rat | 126 | 600 mg/kg - | |
|--|--|--------------------------------|---------------|---|-------------|
| Irritation/Corrosion | | | | | |
| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| Component 8 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 | |
| <u>Sensitisation</u> | | · | | · | |
| 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 toxici | t <u>y (single exposure)</u> | | | | |
| There is no data available. | | | | | |
| Specific target organ toxici | ty (repeated exposure) | | | | |
| There is no data available. | | | | | |
| Aspiration hazard | | | | | |
| There is no data available. | | | | | |
| nformation on likely routes of exposure | : Dermal contact. Eye | contact. Inhalatic | n. Ingestion. | | |
| Potential acute health effects | 2 | | | | |
| Eye contact | : No known significant | effects or critical | hazards. | | |
| Inhalation | : No known significant | effects or critical | hazards. | | |
| Skin contact | : Causes skin irritation | 1. | | | |
| Ingestion | : No known significant | effects or critical | hazards. | | |
| Symptoms related to the phy | vsical, chemical and tox | icological chara | cteristics | | |
| Eye contact | : Adverse symptoms r pain or irritation watering redness | nay include the fo | ollowing: | | |
| Inhalation | : No known significant | effects or critical | hazards. | | |
| Skin contact | : Adverse symptoms r irritation redness | nay include the fo | bllowing: | | |
| Ingestion | : No known significant | effects or critical | hazards. | | |
| Delayed and immediate effect | ts as well as chronic of | fects from shor | and long-te | erm exposure | |
| stayed and mineulate ellet | | | and long-le | an exposure | |

Section 11. Toxicological information

| 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 eff | ects |
| 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. |
| Eartility offecto | |
| Fertility effects | : No known significant effects or critical hazards. |

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|---------------------|----------------|
| Component 8 Oral | 33333.33 mg/kg |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|-------------------------------|---------------------------------|----------|
| Component 8 | | | |
| 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 | LogPow | BCF | Potential |
|--------------------------|--------|-----|-----------|
| Component 7 Glycerol | -1.76 | - | low |
| Component 8 Glycerol | -1.76 | - | low |
| Component 10 Glycerol | -1.76 | - | low |
| Component 11 Glycerol | -1.76 | - | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.



xTAG[®] Cystic Fibrosis (CFTR) 60 kit v2, xTAG[®] Cystic Fibrosis (CFTR) 71 kit v2

Section 12. Ecological information

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 |
|---|-------------------|--------------------|
| Component 8 SKIN CORROSION/IRRITATION - Category 2 | | Calculation method |
| <u>History</u> | | |
| Date of issue | : 15/08/2019 | |
| Date of previous issue | : Not applicable. | |
| Version | : 1 | |

Prepared by : KMK Regulatory Services Inc.



Section 16. Any other relevant information

| 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, |
| | 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 |

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

