

SAFETY DATA SHEET




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

Section 1. Identification

GHS product identifier	: 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 MgCl ₂ Component 10 xTAG® Shrimp Alkaline Phosphatase Component 11 xTAG® Exonuclease I Component 12 xTAG® Streptavidin, R-Phycoerythrin Conjugate
Product type	: Liquid.
Code	:
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. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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. Hazards identification

- Prevention** : P280 - Wear protective gloves. Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Response** : P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it 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 8**



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** No signal word.
- Component 7** No signal word.
- Component 8** Warning
- Component 9** No signal word.
- Component 10** No signal word.
- Component 11** No signal word.
- Component 12** 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** No known significant effects or critical hazards.
- Component 7** No known significant effects or critical hazards.
- Component 8** H319 - Causes serious eye irritation.
H315 - 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.

Precautionary statements

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. Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
- Component 9** Not applicable.
- Component 10** Not applicable.
- Component 11** Not applicable.
- Component 12** Not applicable.

Section 2. Hazards identification

Response	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it 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	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10 Component 11 Component 12	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Component 1 Component 2 Component 3 Component 4 Component 5 Component 6 Component 7 Component 8 Component 9 Component 10 Component 11 Component 12	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Hazards not otherwise classified	: None known.	

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	%	CAS number
Component 8 Potassium hydroxide	1 - 5	1310-58-3



Section 3. Composition/information on ingredients

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

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** Causes serious eye 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.
- 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.

Section 4. First aid measures

	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/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.

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

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

See toxicological information (Section 11)

Section 5. Fire-fighting 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** : Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : No special requirements.

Methods and materials 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).
- 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 1-11: Store at -25°C to -15°C.
 Component 12: Store at 2°C to 6°C.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
Component 8 Potassium hydroxide	ACGIH TLV (United States, 3/2018). C: 2 mg/m ³ NIOSH REL (United States, 10/2016). CEIL: 2 mg/m ³ 10 hours.

Canada

Occupational exposure limits

Ingredient name	Exposure limits
Component 8 Potassium hydroxide	CA Alberta Provincial (Canada, 6/2018). C: 2 mg/m ³ CA British Columbia Provincial (Canada, 7/2018). C: 2 mg/m ³ CA Ontario Provincial (Canada, 1/2018). C: 2 mg/m ³ CA Quebec Provincial (Canada, 1/2014). STEV: 2 mg/m ³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CEIL: 2 mg/m ³

Appropriate engineering controls : No special ventilation requirements.

Section 8. Exposure controls/personal protection

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.
 - 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 11** Liquid. [Clear. Viscous.]
 - Component 12** Liquid.
- Color** :
 - Component 1** Colorless.
 - Component 2** Colorless.
 - Component 3** Colorless.
 - Component 4** Colorless.
 - Component 5** Colorless.
 - Component 6** Colorless.
 - Component 7** Colorless.
 - Component 8** Colorless.
 - Component 9** Colorless.
 - Component 10** Colorless.
 - Component 11** Colorless.
 - Component 12** Pink. [Light]
- Odor** :
 - Component 1** Odorless.
 - Component 2** Odorless.
 - Component 3** Odorless.
 - Component 4** Odorless.
 - Component 5** Odorless.
 - Component 6** Odorless.
 - Component 7** Odorless.
 - Component 8** Odorless.
 - Component 9** Odorless.
 - Component 10** Odorless.
 - Component 11** Odorless.
 - Component 12** Odorless.
- Odor threshold** : Not available.

Section 9. Physical and chemical properties

pH : 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 : Not available.

Initial boiling point and boiling range : 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.

Flash point : 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 : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 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

Vapor 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.

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.

Solubility : 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.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : 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) : Not available.



Section 10. Stability and reactivity

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

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.
Component 9	The product is stable.
Component 10	The product is stable.
Component 11	The product is stable.
Component 12	The product is stable.

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

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: oxidizing materials.
Component 2	Reactive or incompatible with the following materials: oxidizing materials.
Component 3	Reactive or incompatible with the following materials: oxidizing materials.
Component 4	Reactive or incompatible with the following materials: oxidizing materials.
Component 5	Reactive or incompatible with the following materials: oxidizing materials.
Component 6	Reactive or incompatible with the following materials: oxidizing materials.
Component 7	Reactive or incompatible with the following materials: oxidizing materials.
Component 8	Reactive or incompatible with the following materials: oxidizing materials.
Component 9	Reactive or incompatible with the following materials: oxidizing materials.
Component 10	Reactive or incompatible with the following materials: oxidizing materials.
Component 11	Reactive or incompatible with the following materials: oxidizing materials.
Component 12	Reactive or incompatible with the following materials: oxidizing materials.

Section 10. Stability and reactivity

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

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Component 8 Potassium hydroxide	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	-

Sensitization

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)

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 the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

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** Causes serious eye 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.

Section 11. Toxicological information

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.

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 and also 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.



Section 11. Toxicological information

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.

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

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	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.

AERG : Not applicable.

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

- U.S. Federal regulations** : TSCA 8(a) PAIR: All components are listed or exempted.
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 United States inventory (TSCA 8b): Not determined.
 TSCA 12(b) one-time export: None of the components are listed.
 TSCA 12(b) annual export notification: None of the components are listed.
 Clean Water Act (CWA) 307: None of the components are listed.
 Clean Water Act (CWA) 311: Potassium hydroxide
- 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**
 No products were found.
- SARA 304 RQ** : Not applicable.
- SARA 311/312 Classification** : SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
- Composition/information on ingredients**



Section 15. Regulatory information

Name	Classification
Component 8 Potassium hydroxide	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 1A SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SARA 313

There is no data available.

State regulations

- Massachusetts** : The following components are listed: Glycerol
New York : None of the components are listed.
New Jersey : The following components are listed: Glycerol
Pennsylvania : The following components are listed: Glycerol

California Prop. 65

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

Canadian lists

- Canada inventory (DSL NDSL)** : Not determined.
Canadian NPRI : None of the components are listed.
CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Component 8 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method Calculation method

History

- Date of issue mm/dd/yyyy** : 08/15/2019
Date of previous issue : Not applicable
Version : 1
Prepared by : KMK Regulatory Services Inc.
- 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)
 UN = United Nations



Section 16. Other information

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.

