

SAFETY DATA SHEET



xTAG® Gastrointestinal Pathogen Panel (GPP)

Section 1. Identification

GHS product identifier	:	xTAG® Gastrointestinal Pathogen Panel (GPP)
Other means of identification	:	Component 1 xTAG® GPP Primer Mix Component 2 xTAG® Reporter Buffer (contains 0.15M NaCl) Component 3 xTAG® GPP Bead Mix Component 4 xTAG® OneStep Enzyme Mix Component 5 xTAG® OneStep Buffer, 5x Component 6 xTAG® RNase-free Water Component 7 xTAG® BSA Component 8 xTAG® MS2 Component 9 xTAG® 0.22 SAPE
Product type	:	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.
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	:	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
GHS label elements for the kit	:	
Hazard pictograms	:	



Section 2. Hazards identification

Signal word	: Danger
Hazard statements	: H370 - Causes damage to organs.
<u>Precautionary statements</u>	
Prevention	: P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
Response	: P308 + P311 - IF exposed: Call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

GHS label elements by component

Hazard pictograms : Component 1



Signal word	: Component 1	Danger
	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	No signal word.
	Component 9	No signal word.

Hazard statements	: Component 1	H370 - Causes damage to organs.
	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.

Precautionary statements

Prevention	: Component 1	P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
	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.

Response	: Component 1	P308 + P311 - IF exposed: Call a POISON CENTER or doctor.
	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.

Section 2. Hazards identification

- 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.
- Disposal** : **Component 1** P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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.
- 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 1 Tetramethylammonium chloride	1 - 5	75-57-0
Component 4 Glycerol	60 - 80	56-81-5
Component 6 Water	80 - 100	7732-18-5
Component 9 Glycerol Albumins, Blood Serum	30 - 60 0.5 - 1.5	56-81-5 9048-46-8

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	: Not applicable.
Inhalation	: Not applicable.
Skin contact	: Not applicable.
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.
Inhalation	: Component 1	Causes damage to organs following a single exposure if inhaled.
	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.
Skin contact	: Component 1	Causes damage to organs following a single exposure in contact with skin.
	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.
Ingestion	: Component 1	Causes damage to organs following a single exposure if swallowed.
	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.

Over-exposure signs/symptoms

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

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

Section 4. First aid measures

- 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

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large 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 1-8: Store at -25°C to -15°C.
 Component 9: Store at 2°C to 8°C.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
Component 1 Tetramethylammonium chloride	None.
Component 4 Glycerol	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Component 6 Water	None.
Component 9 Glycerol	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Albumins, Blood Serum	None.

Canada

Occupational exposure limits

Ingredient name	Exposure limits
Component 4 Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 5/2019). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist
Component 9 Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m ³ 8 hours. Form: mist

Section 8. Exposure controls/personal protection

CA British Columbia Provincial (Canada, 5/2019).
TWA: 3 mg/m³ 8 hours. Form: respirable mist
TWA: 10 mg/m³ 8 hours. Form: total mist

Appropriate engineering controls : No special ventilation requirements.

Environmental exposure controls : No special measures required.

Individual protection measures

Hygiene measures : Follow good industrial hygiene practice.

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

Skin protection

Hand protection : Not required under normal conditions of use.

Body protection : Not required under normal conditions of use.

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

Respiratory protection : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

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

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 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.

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 Not available.
 Component 9 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.

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.

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.

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.

Section 9. Physical and chemical properties

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.

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.

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.

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.

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.
- 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 and acids.
 - Component 4** Slightly reactive or incompatible with the following materials: metals. 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.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Component 1 Tetramethylammonium chloride	LD50 Oral	Rat	50 mg/kg	-
Component 4 Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Component 9 Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Section 11. Toxicological information

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Target organs
Component 1 Tetramethylammonium chloride	Category 1	-

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	No known significant effects or critical hazards.
	Component 9	No known significant effects or critical hazards.
Inhalation	: Component 1	Causes damage to organs following a single exposure if inhaled.
	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.
Skin contact	: Component 1	Causes damage to organs following a single exposure in contact with skin.
	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.
Ingestion	: Component 1	Causes damage to organs following a single exposure if swallowed.
	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.

Section 11. Toxicological information

Component 9 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- 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.

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 1	
Oral	2283.11 mg/kg
Dermal	13698.63 mg/kg
Component 9	
Oral	50456.17 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Component 1 Tetramethylammonium chloride	Acute LC50 462 mg/L Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential



Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Component 4 Glycerol	-1.76	-	low
Component 6 Water	-1.38	-	low
Component 9 Glycerol	-1.76	-	low

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.

Section 15. Regulatory information

Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate

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 : SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

Composition/information on ingredients

Name	Classification
Component 1 Tetramethylammonium chloride	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 3 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Component 9 Albumins, Blood Serum	ACUTE TOXICITY (oral) - Category 4

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 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method

History

Date of issue mm/dd/yyyy	: 04/30/2020
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

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.

