SAFETY DATA SHEET

Muse MitoPotential Assay Kit

Section 1. Identification

GHS product identifier : Muse MitoPotential Assay Kit

Muse Mitopotential Reagent Other means of 4700-1580 4700-1585 Muse Mitopotential 7-AAD identification 4700-1330 1X Assay Buffer

Product type : Liquid.

Code

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

Supplier/Manufacturer : Luminex Corporation

> 12212 Technology Blvd Austin, Texas 78727 Tel: 1-512-381-4397

Toll free: 1-877-785-2323 (US and Canada)

Fax: 1-512-219-5114 http://www.luminexcorp.com : Support@Luminexcorp.com

e-mail address of person

responsible for this SDS

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 : FLAMMABLE LIQUIDS - Category 4

GHS label elements for the kit

Signal word : Warning

Hazard statements : H227 - Combustible liquid.

Precautionary statements

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

P210 - Keep away from flames and hot surfaces. - No smoking.

Response : Not applicable.

Storage : P403 - Store in a well-ventilated place.

P235 - Keep cool.

: P501 - Dispose of contents and container in accordance with all local, regional, national **Disposal**

and international regulations.

GHS label elements by compartment

Hazard statements 4700-1580 H227 - Combustible liquid.

4700-1585 No known significant effects or critical hazards. No known significant effects or critical hazards. 4700-1330

Precautionary statements

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Section 2. Hazards identification

Prevention	: 4700-1580 4700-1585 4700-1330	P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from flames and hot surfaces No smoking. Not applicable. Not applicable.
Response	: 4700-1580 4700-1585 4700-1330	Not applicable. Not applicable. Not applicable.
Storage	: 4700-1580 4700-1585 4700-1330	P403 - Store in a well-ventilated place. P235 - Keep cool. Not applicable. Not applicable.
Disposal	: 4700-1580 4700-1585 4700-1330	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable.
Hazards not otherwise classified	: None known.	

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Not available.
identification

There are no 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	: 4700-1580	No known significant effects or critical hazards.
	4700-1585	No known significant effects or critical hazards.
	4700-1330	No known significant effects or critical hazards.
Inhalation	: 4700-1580	No known significant effects or critical hazards.
	4700-1585	No known significant effects or critical hazards.
	4700-1330	No known significant effects or critical hazards.
Skin contact	: 4700-1580	No known significant effects or critical hazards.
	4700-1585	No known significant effects or critical hazards.
	4700-1330	No known significant effects or critical hazards.
Ingestion	: 4700-1580	No known significant effects or critical hazards.
-	4700-1585	No known significant effects or critical hazards.
	4700-1330	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.



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Section 4. First aid measures

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

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

Notes to physician : None identified.

Specific treatments No specific treatment.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical

: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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 nonemergency 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.

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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

: Store in accordance with local regulations. **4700-1580**: Store at -15°C to -25°C.

incompatibilities

4700-1585, 4700-1330: Store at 2°C to 8°C.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Canada

Occupational exposure limits

None.

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
 Body protection
 Other skin protection
 Not required under normal conditions of use.
 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 : 4700-1580 Liquid. [Clear.]

4700-1585 Liquid. [Clear.] **4700-1330** Liquid. [Clear.]

Color : 4700-1580 Colorless.

4700-1585 Colorless to light red.

4700-1330 Colorless.

Odor : **4700-1580** No strong odor.

4700-1585 No strong odor. **4700-1330** No strong odor.

Odor threshold : Not available.



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Section 9. Physical and chemical properties

pH : 4700-1580 Not available. 4700-1585 Not available. 4700-1330 Not available.

Melting point : Not available.

Initial boiling point and
boiling range: 4700-1580
4700-1585
4700-1330Not available.
Not available.

Flash point : **4700-1580** Closed cup: 87°C (188.6°F)

4700-1585 Not available. **4700-1330** Not available.

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

Vapor pressure: 4700-1580 Not available.

4700-1585 Not available.
4700-1330 Not available.
4700-1580 Not available.
4700-1585 Not available.

 Relative density
 4700-1330
 Not available.

 1 4700-1580
 Not available.

 1 4700-1585
 Not available.

 1 4700-1330
 Not available.

: **4700-1580** Not available. **4700-1585** Not available.

4700-1330 Not available.

Partition coefficient: n-

octanol/water

Solubility

(flammable) limits

Vapor density

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : 4700-1580 Not available.

4700-1585 Not available. **4700-1330** 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: 4700-1580 The product is stable. The product is stable. 4700-1330 The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid : 4700-1580 Avoid all possible sources of ignition (spark or flame). Do not

pressurize, cut, weld, braze, solder, drill, grind or expose containers

to heat or sources of ignition.

4700-1585 No specific data. **4700-1330** No specific data.



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Section 10. Stability and reactivity

Incompatible materials 4700-1580 Reactive or incompatible with the following materials: oxidizing

4700-1585 Reactive or incompatible with the following materials: oxidizing

materials.

Reactive or incompatible with the following materials: oxidizing 4700-1330

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

There is no data available.

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.

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	: 4700-1580 4700-1585 4700-1330	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: 4700-1580 4700-1585 4700-1330	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 4700-1580 4700-1585 4700-1330	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.



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Section 11. Toxicological information

Ingestion : 4700-1580 No known significant effects or critical hazards.

4700-1585 No known significant effects or critical hazards.4700-1330 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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.
 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 : 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.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

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



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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 minimized wherever possible. No specific disposal consideration.

Section 14. Transport information

	DOT	Classification	TDG C	lassification		IMDG		IATA
UN number	4700-1580	NA1993	Not	regulated.	Not	regulated.	No	ot regulated.
UN proper shipping name	4700-1580	COMBUSTIBLE LIQUID, N.O.S.		-		-		-
Transport hazard class(es)	4700-1580 4700-1580	3 COMBUSTIBLE		-		-		-
Packing group	4700-1580	III		-		-		-
Environmental hazards	4700-1580 4700-1585 4700-1330	No.	4700-1580 4700-1585 4700-1330	No. No. No.	4700-1580 4700-1585 4700-1330	No. No. No.	4700-1580 4700-1585 4700-1330	No.

128 **AERG** : 4700-1580

Additional information

TDG Classification 4700-1580 4700-1585

4700-1330

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: Disodium hydrogenorthophosphate; Disodium phosphate

heptahydrate

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

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: Not listed

Class II Substances

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Section 15. Regulatory information

DEA List I Chemicals : Not listed

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

SARA 302/304

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 4

SARA 313

There is no data available.

State regulations

Massachusetts : None of the components are listed.New York : None of the components are listed.

New Jersey : The following components are listed: Dimethyl sulfoxide

Pennsylvania : None of the components are listed.

California Prop. 65

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

Canadian lists

Canada inventory (DSL : Not determined.

NDSL)

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	
4700-1580		
FLAMMABLE LIQUIDS - Category 4	On basis of test data	

History

Date of issue mm/dd/yyyy : 05/15/2019

Date of previous issue : Not applicable

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KK Regulatory Services

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Section 16. Other information

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.

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