

# SAFETY DATA SHEET



LumiMax Superoxide Anion Detection Kit, Part Number 204525

## Section 1. Identification

### 1.1 Product identifier

**Product name** : LumiMax Superoxide Anion Detection Kit, Part Number 204525  
**Part No. (Chemical Kit)** : 204525  
**Part No.** :  LumiMax Enhancer Solution 204525-21  
 LumiMax Luminol Solution 204525-22  
 LumiMax Xanthine Assay Medium 204525-26  
 LumiMax Xanthine Solution 204525-23  
 LumiMax Xanthine Oxidase 204525-24  
 LumiMax Superoxide Dismutase 204525-81  
 LumiMax SOA Assay Medium 204525-25

**Validation date** : 6/30/2017

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

**Material uses** : Analytical reagent.  
 LumiMax Enhancer Solution 500 µl 5 mM  
 LumiMax Luminol Solution 500 µl 4 mM  
 LumiMax Xanthine Assay Medium 25 ml  
 LumiMax Xanthine Solution 100 µl 1 mM  
 LumiMax Xanthine Oxidase 20 µl 0.02 U/µl  
 LumiMax Superoxide Dismutase 20 µl 25 U/µl  
 LumiMax SOA Assay Medium 25 ml

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
 5301 Stevens Creek Blvd  
 Santa Clara, CA 95051, USA  
 800-227-9770

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**OSHA/HCS status** :  LumiMax Enhancer Solution While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.  
 LumiMax Luminol Solution While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.  
 LumiMax Xanthine Assay Medium While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

## Section 2. Hazards identification

LumiMax Xanthine Solution	other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
LumiMax Xanthine Oxidase	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
LumiMax Superoxide Dismutase	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
LumiMax SOA Assay Medium	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

Not classified.

### 2.2 GHS label elements

#### Signal word

: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No signal word.
LumiMax Luminol Solution	No signal word.
LumiMax Xanthine Assay Medium	No signal word.
LumiMax Xanthine Solution	No signal word.
LumiMax Xanthine Oxidase	No signal word.
LumiMax Superoxide Dismutase	No signal word.
LumiMax SOA Assay Medium	No signal word.

#### Hazard statements

: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
LumiMax Luminol Solution	No known significant effects or critical hazards.
LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
LumiMax Xanthine Solution	No known significant effects or critical hazards.
LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
LumiMax SOA Assay Medium	No known significant effects or critical hazards.

#### Precautionary statements

##### Prevention

: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not applicable.
LumiMax Luminol Solution	Not applicable.
LumiMax Xanthine Assay Medium	Not applicable.
LumiMax Xanthine Solution	Not applicable.
LumiMax Xanthine Oxidase	Not applicable.
LumiMax Superoxide Dismutase	Not applicable.
LumiMax SOA Assay Medium	Not applicable.

## Section 2. Hazards identification

<b>Response</b>	: <input checked="" type="checkbox"/>	LumiMax Enhancer Solution	Not applicable.
		LumiMax Luminol Solution	Not applicable.
		LumiMax Xanthine Assay Medium	Not applicable.
		LumiMax Xanthine Solution	Not applicable.
		LumiMax Xanthine Oxidase	Not applicable.
		LumiMax Superoxide Dismutase	Not applicable.
		LumiMax SOA Assay Medium	Not applicable.
<b>Storage</b>	: <input checked="" type="checkbox"/>	LumiMax Enhancer Solution	Not applicable.
		LumiMax Luminol Solution	Not applicable.
		LumiMax Xanthine Assay Medium	Not applicable.
		LumiMax Xanthine Solution	Not applicable.
		LumiMax Xanthine Oxidase	Not applicable.
		LumiMax Superoxide Dismutase	Not applicable.
		LumiMax SOA Assay Medium	Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/>	LumiMax Enhancer Solution	Not applicable.
		LumiMax Luminol Solution	Not applicable.
		LumiMax Xanthine Assay Medium	Not applicable.
		LumiMax Xanthine Solution	Not applicable.
		LumiMax Xanthine Oxidase	Not applicable.
		LumiMax Superoxide Dismutase	Not applicable.
		LumiMax SOA Assay Medium	Not applicable.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/>	LumiMax Enhancer Solution	None known.
		LumiMax Luminol Solution	None known.
		LumiMax Xanthine Assay Medium	None known.
		LumiMax Xanthine Solution	None known.
		LumiMax Xanthine Oxidase	None known.
		LumiMax Superoxide Dismutase	None known.
		LumiMax SOA Assay Medium	None known.
<b>2.3 Other hazards</b>			
<b>Hazards not otherwise classified</b>	: <input checked="" type="checkbox"/>	LumiMax Enhancer Solution	None known.
		LumiMax Luminol Solution	None known.
		LumiMax Xanthine Assay Medium	None known.
		LumiMax Xanthine Solution	None known.
		LumiMax Xanthine Oxidase	None known.
		LumiMax Superoxide Dismutase	None known.
		LumiMax SOA Assay Medium	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: <input checked="" type="checkbox"/>	LumiMax Enhancer Solution	Mixture
		LumiMax Luminol Solution	Mixture
		LumiMax Xanthine Assay Medium	Mixture
		LumiMax Xanthine Solution	Mixture
		LumiMax Xanthine Oxidase	Mixture
		LumiMax Superoxide Dismutase	Mixture
		LumiMax SOA Assay Medium	Mixture



Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	:  LumiMax Enhancer Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	LumiMax Luminol Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	LumiMax Xanthine Assay Medium	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	LumiMax Xanthine Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	LumiMax Xanthine Oxidase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	LumiMax Superoxide Dismutase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	LumiMax SOA Assay Medium	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	:  LumiMax Enhancer Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	LumiMax Luminol Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	LumiMax Xanthine Assay Medium	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	LumiMax Xanthine Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	LumiMax Xanthine Oxidase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	LumiMax Superoxide Dismutase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	LumiMax SOA Assay Medium	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	:  LumiMax Enhancer Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	LumiMax Luminol Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	LumiMax Xanthine Assay Medium	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

## Section 4. First aid measures

	LumiMax Xanthine Solution	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	LumiMax Xanthine Oxidase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	LumiMax Superoxide Dismutase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	LumiMax SOA Assay Medium	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	:  LumiMax Enhancer Solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	LumiMax Luminol Solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	LumiMax Xanthine Assay Medium	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	LumiMax Xanthine Solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	LumiMax Xanthine Oxidase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	LumiMax Superoxide Dismutase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	LumiMax SOA Assay Medium	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small

## Section 4. First aid measures

quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

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<b>Skin contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	No specific data.
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.

<b>Ingestion</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	No specific data.
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.

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

<b>Notes to physician</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	LumiMax Luminol Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	LumiMax Xanthine Assay Medium	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	LumiMax Xanthine Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	LumiMax Xanthine Oxidase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	LumiMax Superoxide Dismutase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	LumiMax SOA Assay Medium	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

<b>Specific treatments</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific treatment.
	LumiMax Luminol Solution	No specific treatment.
	LumiMax Xanthine Assay Medium	No specific treatment.
	LumiMax Xanthine Solution	No specific treatment.
	LumiMax Xanthine Oxidase	No specific treatment.
	LumiMax Superoxide Dismutase	No specific treatment.
	LumiMax SOA Assay Medium	No specific treatment.

<b>Protection of first-aiders</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No action shall be taken involving any personal risk or without suitable training.
	LumiMax Luminol Solution	No action shall be taken involving any personal risk or without suitable training.
	LumiMax Xanthine Assay Medium	No action shall be taken involving any personal risk or without suitable training.
	LumiMax Xanthine Solution	No action shall be taken involving any personal risk or without suitable training.
	LumiMax Xanthine Oxidase	No action shall be taken involving any personal risk or without suitable training.
	LumiMax Superoxide Dismutase	No action shall be taken involving any personal risk or without suitable training.
	LumiMax SOA Assay Medium	No action shall be taken involving any personal risk

## Section 4. First aid measures

or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Use an extinguishing agent suitable for the surrounding fire.
	LumiMax Luminol Solution	Use an extinguishing agent suitable for the surrounding fire.
	LumiMax Xanthine Assay Medium	Use an extinguishing agent suitable for the surrounding fire.
	LumiMax Xanthine Solution	Use an extinguishing agent suitable for the surrounding fire.
	LumiMax Xanthine Oxidase	Use an extinguishing agent suitable for the surrounding fire.
	LumiMax Superoxide Dismutase	Use an extinguishing agent suitable for the surrounding fire.
	LumiMax SOA Assay Medium	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	None known.
	LumiMax Luminol Solution	None known.
	LumiMax Xanthine Assay Medium	None known.
	LumiMax Xanthine Solution	None known.
	LumiMax Xanthine Oxidase	None known.
	LumiMax Superoxide Dismutase	None known.
	LumiMax SOA Assay Medium	None known.

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


<b>Specific hazards arising from the chemical</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	LumiMax Luminol Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	LumiMax Xanthine Assay Medium	In a fire or if heated, a pressure increase will occur and the container may burst.
	LumiMax Xanthine Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	LumiMax Xanthine Oxidase	In a fire or if heated, a pressure increase will occur and the container may burst.
	LumiMax Superoxide Dismutase	In a fire or if heated, a pressure increase will occur and the container may burst.
	LumiMax SOA Assay Medium	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.

### 5.3 Advice for firefighters




## Section 5. Fire-fighting measures

### Special protective actions for fire-fighters

:  LumiMax Enhancer Solution	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.
LumiMax Luminol Solution	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.
LumiMax Xanthine Assay Medium	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.
LumiMax Xanthine Solution	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.
LumiMax Xanthine Oxidase	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.
LumiMax Superoxide Dismutase	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.
LumiMax SOA Assay Medium	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

:  LumiMax Enhancer Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
LumiMax Luminol Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
LumiMax Xanthine Assay Medium	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
LumiMax Xanthine Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
LumiMax Xanthine Oxidase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
LumiMax Superoxide Dismutase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
LumiMax SOA Assay Medium	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

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

:  LumiMax Enhancer Solution

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

LumiMax Luminol Solution

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

LumiMax Xanthine Assay Medium

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

LumiMax Xanthine Solution

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

LumiMax Xanthine Oxidase

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

LumiMax Superoxide Dismutase

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

LumiMax SOA Assay Medium

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** :  LumiMax Enhancer Solution

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".

LumiMax Luminol Solution

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".

LumiMax Xanthine Assay Medium

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".

LumiMax Xanthine Solution

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

## Section 6. Accidental release measures

LumiMax Xanthine Oxidase	the information in "For non-emergency personnel". 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".
LumiMax Superoxide Dismutase	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".
LumiMax SOA Assay Medium	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".

### 6.2 Environmental precautions

:  LumiMax Enhancer Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
LumiMax Luminol Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
LumiMax Xanthine Assay Medium	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
LumiMax Xanthine Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
LumiMax Xanthine Oxidase	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
LumiMax Superoxide Dismutase	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
LumiMax SOA Assay Medium	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

<b>Methods for cleaning up</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	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.
	LumiMax Luminol Solution	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.
	LumiMax Xanthine Assay Medium	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.
	LumiMax Xanthine Solution	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.
	LumiMax Xanthine Oxidase	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.
	LumiMax Superoxide Dismutase	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.
	LumiMax SOA Assay Medium	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.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Put on appropriate personal protective equipment (see Section 8).
	LumiMax Luminol Solution	Put on appropriate personal protective equipment (see Section 8).
	LumiMax Xanthine Assay Medium	Put on appropriate personal protective equipment (see Section 8).
	LumiMax Xanthine Solution	Put on appropriate personal protective equipment (see Section 8).
	LumiMax Xanthine Oxidase	Put on appropriate personal protective equipment (see Section 8).
	LumiMax Superoxide Dismutase	Put on appropriate personal protective equipment (see Section 8).
	LumiMax SOA Assay Medium	Put on appropriate personal protective equipment

## Section 7. Handling and storage

<p><b>Advice on general occupational hygiene</b></p>	<p>:  LumiMax Enhancer Solution</p>	<p>(see Section 8). 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>LumiMax Luminol Solution</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>LumiMax Xanthine Assay Medium</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>LumiMax Xanthine Solution</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>LumiMax Xanthine Oxidase</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>LumiMax Superoxide Dismutase</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>LumiMax SOA Assay Medium</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p><b>7.2 Conditions for safe storage, including any incompatibilities</b></p>	<p>:  LumiMax Enhancer Solution</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright</p>

## Section 7. Handling and storage

LumiMax Luminol Solution

to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

LumiMax Xanthine Assay Medium

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

LumiMax Xanthine Solution

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

LumiMax Xanthine Oxidase

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

LumiMax Superoxide Dismutase

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 7. Handling and storage

LumiMax SOA Assay Medium

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

- ☑ LumiMax Enhancer Solution Industrial applications, Professional applications.
- ☑ LumiMax Luminol Solution Industrial applications, Professional applications.
- ☑ LumiMax Xanthine Assay Medium Industrial applications, Professional applications.
- ☑ LumiMax Xanthine Solution Industrial applications, Professional applications.
- ☑ LumiMax Xanthine Oxidase Industrial applications, Professional applications.
- ☑ LumiMax Superoxide Dismutase Industrial applications, Professional applications.
- ☑ LumiMax SOA Assay Medium Industrial applications, Professional applications.

#### Industrial sector specific solutions

- ☑ LumiMax Enhancer Solution Not applicable.
- ☑ LumiMax Luminol Solution Not applicable.
- ☑ LumiMax Xanthine Assay Medium Not applicable.
- ☑ LumiMax Xanthine Solution Not applicable.
- ☑ LumiMax Xanthine Oxidase Not applicable.
- ☑ LumiMax Superoxide Dismutase Not applicable.
- ☑ LumiMax SOA Assay Medium Not applicable.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
None.	

### 8.2 Exposure controls

#### Appropriate engineering controls

- ☑ Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Environmental exposure controls

- ☑ Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

- ☑ Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

- ☑ Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## Section 8. Exposure controls/personal protection

### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Liquid.
	LumiMax Luminol Solution	Liquid.
	LumiMax Xanthine Assay Medium	Liquid.
	LumiMax Xanthine Solution	Liquid.
	LumiMax Xanthine Oxidase	Liquid.
	LumiMax Superoxide Dismutase	Liquid.
	LumiMax SOA Assay Medium	Liquid.
<b>Color</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Odor</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Odor threshold</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>pH</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	8
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	9
	LumiMax Xanthine Solution	9
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	9



## Section 9. Physical and chemical properties

<b>Melting point</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	0°C (32°F)
	LumiMax Luminol Solution	0°C (32°F)
	LumiMax Xanthine Assay Medium	0°C (32°F)
	LumiMax Xanthine Solution	0°C (32°F)
	LumiMax Xanthine Oxidase	0°C (32°F)
	LumiMax Superoxide Dismutase	0°C (32°F)
	LumiMax SOA Assay Medium	0°C (32°F)
<b>Boiling point</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	100°C (212°F)
	LumiMax Luminol Solution	100°C (212°F)
	LumiMax Xanthine Assay Medium	100°C (212°F)
	LumiMax Xanthine Solution	100°C (212°F)
	LumiMax Xanthine Oxidase	100°C (212°F)
	LumiMax Superoxide Dismutase	100°C (212°F)
	LumiMax SOA Assay Medium	100°C (212°F)
<b>Flash point</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Evaporation rate</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Flammability (solid, gas)</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not applicable.
	LumiMax Luminol Solution	Not applicable.
	LumiMax Xanthine Assay Medium	Not applicable.
	LumiMax Xanthine Solution	Not applicable.
	LumiMax Xanthine Oxidase	Not applicable.
	LumiMax Superoxide Dismutase	Not applicable.
	LumiMax SOA Assay Medium	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Vapor pressure</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Vapor density</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.

## Section 9. Physical and chemical properties

<b>Relative density</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Solubility</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Easily soluble in the following materials: cold water and hot water.
	LumiMax Luminol Solution	Easily soluble in the following materials: cold water and hot water.
	LumiMax Xanthine Assay Medium	Easily soluble in the following materials: cold water and hot water.
	LumiMax Xanthine Solution	Easily soluble in the following materials: cold water and hot water.
	LumiMax Xanthine Oxidase	Easily soluble in the following materials: cold water and hot water.
	LumiMax Superoxide Dismutase	Easily soluble in the following materials: cold water and hot water.
	LumiMax SOA Assay Medium	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Auto-ignition temperature</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Decomposition temperature</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.
<b>Viscosity</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase LumiMax Superoxide Dismutase LumiMax SOA Assay Medium	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution LumiMax Luminol Solution LumiMax Xanthine Assay Medium LumiMax Xanthine Solution LumiMax Xanthine Oxidase	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

## Section 10. Stability and reactivity

	LumiMax Superoxide Dismutase	May react or be incompatible with oxidizing materials.
	LumiMax SOA Assay Medium	May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LumiMax Luminol Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LumiMax Xanthine Assay Medium	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LumiMax Xanthine Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LumiMax Xanthine Oxidase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LumiMax Superoxide Dismutase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LumiMax SOA Assay Medium	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

## Section 11. Toxicological information

Not available.

<b>Information on the likely routes of exposure</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not available.
	LumiMax Luminol Solution	Not available.
	LumiMax Xanthine Assay Medium	Not available.
	LumiMax Xanthine Solution	Not available.
	LumiMax Xanthine Oxidase	Not available.
	LumiMax Superoxide Dismutase	Not available.
	LumiMax SOA Assay Medium	Not available.

### Potential acute health effects

<b>Eye contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	No specific data.
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	No specific data.
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.

## Section 11. Toxicological information

<b>Skin contact</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	No specific data.
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No specific data.
	LumiMax Luminol Solution	No specific data.
	LumiMax Xanthine Assay Medium	No specific data.
	LumiMax Xanthine Solution	No specific data.
	LumiMax Xanthine Oxidase	No specific data.
	LumiMax Superoxide Dismutase	No specific data.
	LumiMax SOA Assay Medium	No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	No known significant effects or critical hazards.
	LumiMax Luminol Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
	LumiMax Xanthine Solution	No known significant effects or critical hazards.
	LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
	LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Developmental effects</b>	:	☑ LumiMax Enhancer Solution	No known significant effects or critical hazards.
		LumiMax Luminol Solution	No known significant effects or critical hazards.
		LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
		LumiMax Xanthine Solution	No known significant effects or critical hazards.
		LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
		LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	☑ LumiMax Enhancer Solution	No known significant effects or critical hazards.
		LumiMax Luminol Solution	No known significant effects or critical hazards.
		LumiMax Xanthine Assay Medium	No known significant effects or critical hazards.
		LumiMax Xanthine Solution	No known significant effects or critical hazards.
		LumiMax Xanthine Oxidase	No known significant effects or critical hazards.
		LumiMax Superoxide Dismutase	No known significant effects or critical hazards.
	LumiMax SOA Assay Medium	No known significant effects or critical hazards.	

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

**DOT / TDG / Mexico / IMDG / IATA** : Not regulated.

**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.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

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

**U.S. Federal regulations** : TSCA 4(a) proposed test rules: Glycine  
TSCA 8(a) PAIR: Trisodium tetraoxovanadate  
TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate; Sodium 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

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312



## Section 15. Regulatory information

<b>Classification</b>	: <input checked="" type="checkbox"/> LumiMax Enhancer Solution	Not applicable.
	LumiMax Luminol Solution	Not applicable.
	LumiMax Xanthine Assay Medium	Not applicable.
	LumiMax Xanthine Solution	Not applicable.
	LumiMax Xanthine Oxidase	Not applicable.
	LumiMax Superoxide Dismutase	Not applicable.
	LumiMax SOA Assay Medium	Not applicable.

### Composition/information on ingredients

No products were found.

### State regulations

**Massachusetts** : None of the components are listed.

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

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

### California Prop. 65

Not available.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

**Europe** : Not determined.

**Japan** :  **Japan inventory (ENCS)**: Not determined.  
 **Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined.

**New Zealand** : Not determined.

**Philippines** : Not determined.

**Republic of Korea** : Not determined.

**Taiwan** : Not determined.

**Thailand** :  Not determined.

**Turkey** :  Not determined.

**United States** : Not determined.

**Viet Nam** :  Not determined.

## Section 16. Other information

### History

**Date of issue** : 06/30/2017

**Date of previous issue** : 04/20/2015.

**Version** : 4

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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