**SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)**

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Issue date: 4/20/2021  Version: 5.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>SOLUS LISTERIA ELISA ASSAY (LIS-0096S &amp; LIS-0480S)</td>
</tr>
</tbody>
</table>

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

##### 1.2.1. Relevant identified uses

Main use category: Laboratory use, Industrial use, Professional use

Industrial/Professional use spec: For professional use only

Use of the substance/mixture: Scientific research and development

Not for human consumption or veterinary purposes.

##### 1.2.2. Uses advised against

No additional information available

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

**Supplier**

Solus Scientific Solutions

Unit 9, Mansfield Network Centre

Millenium Business Park, Concorde Way

NG19 7JZ Mansfield

T +44 (0) 1623 429701

solus.info@perkinelmer.com

#### 1.4. Emergency telephone number

Emergency number: +44 (0) 1623 429701

### SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified.

**Adverse physicochemical, human health and environmental effects**

No additional information available

#### 2.2. Label elements

Not classified.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments: Kit contains several component parts. These parts are manufactured using various products not classified as hazardous according to EC regulations, 1272/2008, EC Directives 67/548/EEC, 1999/45/EC and OSHA Hazard communication standard 29CFR 1910-120.

Where a component part uses products that are classified as hazardous according to EC regulations, 1272/2008 EC Directives 67/548/EEC and OSHA Hazard communications standard 29CFR 1910-120, they are listed below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2M Hydrochloric acid</td>
<td>(CAS-No.) 7647-01-0</td>
<td>&lt;= 5</td>
<td>Met. Corr. 1, H290 Skin Corr. 1, H314 STOT SE 3, H335</td>
</tr>
<tr>
<td>Bovine Serum Albumin</td>
<td>(CAS-No.) 9048-46-8 (EC-No.) 232-936-2</td>
<td>&lt;= 5</td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td>Sulphuric acid 0.2M aqueous solution</td>
<td>(CAS-No.) 7664-93-9</td>
<td>&lt;= 5</td>
<td>Met. Corr. 1, H290 Skin Corr. 1, H314</td>
</tr>
</tbody>
</table>
SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Hydrochloric acid 37%</th>
<th>(CAS-No.) 7647-01-0</th>
<th>&lt;= 3</th>
<th>Met. Corr. 1, H290 Skin Corr. 1, H314 STOT SE 3, H335</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antifoam solution</td>
<td>&lt;= 1</td>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-one and 2-methyl-2H-isothiazol-3-one solution in glycols (3:1)</td>
<td>&lt;= 0.1</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1, H314 Skin Irrit. 2, H315</td>
<td></td>
</tr>
<tr>
<td>Conjugate reagent component of kit contains &lt;0.01% of Listeria polyclonal antibody conjugated to Horse radish peroxidase</td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

Comments: At the level of concentrations shown above the substances are not classified as hazardous according to EC Regulations, 1272/2001, EC Directives 67/548/EEC,1999/45/EC, AL Tox a/s has concluded the mixture is not classified according to EC(67/548 or 1999/45) and CLP 1272/2008. 0.005% of Nigrosin dye added to control; Cas 8005-03-6

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.

First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist: Get medical advice/attention.

First-aid measures after skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.

First-aid measures after eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation: Vapour/ mist from product, if present, may cause irritation after an excessive inhalation exposure.

Symptoms/effects after skin contact: Vapour may cause irritation to skin after excessive exposure.

Symptoms/effects after eye contact: May cause eye irritation. Redness, itching, tears.

Symptoms/effects after ingestion: May cause irritation to the digestive tract. Abdominal pain, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes.

5.3. Advice for firefighters

Precautionary measures fire: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapour or spray. No flames, no sparks. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.
SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.

Measures in case of dust release: Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.

Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment: Collect spillage. Contain the spilled material by bunding.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Try to stop release if without risk.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid formation of vapours. Provide local exhaust or general room ventilation.

Hygiene measures: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Ensure adequate ventilation, especially in confined areas.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Heat sources, Direct sunlight. Keep container closed when not in use.

Incompatible products: Strong oxidizing agents.

Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

Storage temperature: 2 - 8 °C

Heat and ignition sources: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage area: Store in a dry place. Store in a closed container.

7.3. Specific end use(s)
For analytical purposes. Scientific research and development. Not for human consumption. PC21 Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls

Appropriate engineering controls:
Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.

Personal protective equipment:
Avoid all unnecessary exposure.

Materials for protective clothing:
Wear suitable protective clothing, gloves and eye/face protection

Hand protection:
The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Permeation</th>
<th>Thickness (mm)</th>
<th>Penetration</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposable gloves</td>
<td>Nitrile rubber (NBR)</td>
<td>6 (&gt; 480 minutes)</td>
<td>0.11</td>
<td>EN 374</td>
<td></td>
</tr>
</tbody>
</table>

Eye protection:
Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against liquid splashes.

<table>
<thead>
<tr>
<th>Type</th>
<th>Use</th>
<th>Characteristics</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety glasses</td>
<td>Fine dust, Dust</td>
<td>With side shields</td>
<td>EN 166</td>
</tr>
</tbody>
</table>
SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

9.1. Information on basic physical and chemical properties

9.2. Other information

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates:

10.4. Conditions to avoid

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10.5. Incompatible materials

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SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)
Safety Data Sheet
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Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified
Additional information : Based on available data, the classification criteria are not met
Serious eye damage/irritation : Not classified
Additional information : Based on available data, the classification criteria are not met
Respiratory or skin sensitisation : Not classified
Additional information : Based on available data, the classification criteria are not met
Germ cell mutagenicity : Not classified
Additional information : Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
Additional information : Based on available data, the classification criteria are not met
Reproductive toxicity : Not classified
Additional information : Based on available data, the classification criteria are not met
STOT-single exposure : Not classified
Additional information : Based on available data, the classification criteria are not met
STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met
Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)
Persistence and degradability No data available.

Bovine Serum Albumin (9048-46-8)
Persistence and degradability No data available.

12.3. Bioaccumulative potential

SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)
Bioaccumulative potential No data available.

Bovine Serum Albumin (9048-46-8)
Bioaccumulative potential No data available.

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment

SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component
Bovine Serum Albumin (9048-46-8) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
Additional information : Avoid release to the environment.
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

No supplementary information available

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information


Other information: This SDS has been produced by Molekula Ltd.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
**SOLUS LISTERIA ELISA ASSAY (LIS-0096S & LIS-0480S)**

Safety Data Sheet  
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Full text of H- and EUH-statements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
</tr>
<tr>
<td>Skin Corr. 1</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
</tr>
<tr>
<td>H290</td>
</tr>
<tr>
<td>H302</td>
</tr>
<tr>
<td>H314</td>
</tr>
<tr>
<td>H315</td>
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<tr>
<td>H319</td>
</tr>
<tr>
<td>H331</td>
</tr>
<tr>
<td>H335</td>
</tr>
</tbody>
</table>

**SDS EU (REACH Annex II)**  
*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*