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

1.1. Product identifier

Product form: Mixture
Product name: SOLUS SALMONELLA ELISA ASSAY (SAL-0096S & SAL-0480S)

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: For analytical purposes
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 67/548/45/EC 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>
</table>
| Tris(hydroxymethyl)aminomethane     | (CAS-No.) 77-86-1  | <= 5 | Eye Irrit. 2, H319
|                                     |                    |    | STOT SE 3, H335
| Sulphuric acid 0.2M aqueous solution| (CAS-No.) 7664-93-9| <= 5 | Met. Corr. 1, H290
|                                     |                    |    | Skin Corr. 1, H314
| 2M Hydrochloric acid                | (CAS-No.) 7647-01-0| <= 5 | Met. Corr. 1, H290
|                                     |                    |    | Skin Corr. 1, H314
|                                     |                    |    | STOT SE 3, H335
SOLUS SALMONELLA ELISA ASSAY (SAL-0096S & SAL-0480S)
Safety Data Sheet

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

<table>
<thead>
<tr>
<th>Substance/Component</th>
<th>CAS-No.</th>
<th>STOT SE 3, H335</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bovine Serum Albumin</td>
<td>(CAS-No.) 9048-46-8 (EC-No.) 232-936-2</td>
<td>&lt;= 5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Hydrochloric acid 37%</td>
<td>(CAS-No.) 7647-01-0</td>
<td>&lt;= 3</td>
<td>Met. Corr. 1, H290 Skin Corr. 1, H314 STOT SE 3, H335</td>
</tr>
<tr>
<td>Antifoam solution</td>
<td>&lt;= 1</td>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one solution</td>
<td>(CAS-No.) 2682-20-4</td>
<td>&lt;= 0.1</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400</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 Salmonella monoclonal and polyclonal antibodies</td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
<td></td>
</tr>
</tbody>
</table>

**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.

Full text of H-statements: see section 16
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.
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 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

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></td>
<td>EN 374</td>
</tr>
</tbody>
</table>
**SOLUS SALMONELLA ELISA ASSAY (SAL-0096S & SAL-0480S)**

**Safety Data Sheet**

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

---

**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>

**Skin and body protection:**

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use.

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long sleeved protective clothing</td>
<td>EN ISO 13982</td>
</tr>
</tbody>
</table>

**Respiratory protection:**

No respiratory protection needed under normal use conditions. [In case of inadequate ventilation] wear respiratory protection.

<table>
<thead>
<tr>
<th>Device</th>
<th>Filter type</th>
<th>Condition</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust mask</td>
<td>Type P1</td>
<td>Dust protection</td>
<td>EN 14387</td>
</tr>
</tbody>
</table>

**Other information:**

Do not eat, drink or smoke during use.

---

### SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

- **Physical state:** No data available
- **Colour:** No data available
- **Odour:** No data available
- **Odour threshold:** No data available
- **pH:** No data available
- **Relative evaporation rate (butylacetate=1):** No data available
- **Melting point:** No data available
- **Freezing point:** No data available
- **Boiling point:** No data available
- **Flash point:** No data available
- **Auto-ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Flammability (solid, gas):** Non flammable.
- **Vapour pressure:** No data available
- **Relative vapour density at 20 °C:** No data available
- **Relative density:** No data available
- **Solubility:** No data available
- **Log Pow:** No data available
- **Viscosity, kinematic:** No data available
- **Viscosity, dynamic:** No data available
- ** Explosive properties:** No data available
- **Oxidising properties:** No data available
- **Explosive limits:** No data available

**9.2. Other information**

Additional information: Kit consists of microwell plate(s) and various liquid solutions

---

### SECTION 10: Stability and reactivity

**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.

---

4/20/2021 (Version: 5.0) EN (English)
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates:

SECTION 11: Toxicological information
11.1. Information on toxicological effects
- **Acute toxicity (oral)**: Not classified
- **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

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOLUS SALMONELLA ELISA ASSAY (SAL-0096S &amp; SAL-0480S)</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOLUS SALMONELLA ELISA ASSAY (SAL-0096S &amp; SAL-0480S)</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bovine Serum Albumin (9048-46-8)</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOLUS SALMONELLA ELISA ASSAY (SAL-0096S &amp; SAL-0480S)</strong></td>
<td>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</td>
</tr>
<tr>
<td></td>
<td>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</td>
</tr>
</tbody>
</table>
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
## SOLUS SALMONELLA ELISA ASSAY (SAL-0096S & SAL-0480S)

**Safety Data Sheet**

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

### SECTION 16: Other information

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Other information</td>
<td>: This SDS has been produced by Molekula Ltd.</td>
</tr>
<tr>
<td>Other information</td>
<td>: 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.</td>
</tr>
</tbody>
</table>

<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>Aquatic Acute 1</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>Skin Sens. 1</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>
</tr>
<tr>
<td>H317</td>
</tr>
<tr>
<td>H319</td>
</tr>
<tr>
<td>H331</td>
</tr>
<tr>
<td>H335</td>
</tr>
<tr>
<td>H400</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.