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

1.1. Product identifier
Product form: Mixture
Product name: SOLUS E.COLI O157 ELISA ASSAY (EC-048S)

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 67548/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 67548/45/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>
<tbody>
<tr>
<td>Tris(hydroxymethyl)aminomethane</td>
<td>(CAS-No.) 77-86-1</td>
<td>&lt;= 5</td>
<td>Eye Irrit. 2, H319 STOT SE 3, H335</td>
</tr>
<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>
</tbody>
</table>
SOLUS E.COLI 0157 ELISA ASSAY (EC-048S)
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Name</th>
<th>Hydrochloric acid 37%</th>
<th>&lt;= 3</th>
<th>Antifoam solution</th>
<th>&lt;= 1</th>
<th>5-Chloro-2-methyl-4-isothiazolin-one and 2-methyl-2H-isothiazol-3-one solution in glycols (3:1)</th>
<th>&lt;= 0.1</th>
<th>Sulfuric acid</th>
<th>&lt; 0.05</th>
<th>Conjugate reagent component of kit contains &lt;0.01% of E.coli 0157 antibody conjugated to Horse radish peroxidase</th>
<th>Acute Tox. 4 (Oral), H302</th>
</tr>
</thead>
</table>

**Specific concentration limits:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>(CAS-No.) 7664-93-9</td>
<td>(5 &lt;=C &lt; 15) Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 231-639-5</td>
<td>(5 &lt;=C &lt; 15) Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 016-020-00-8</td>
<td>(C &gt;= 15) Skin Corr. 1A, H314</td>
</tr>
</tbody>
</table>

Comments: At the level of concentrations shown above the substances are not classified as hazardous according to EC Regulations, 1272/2008/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.

4/20/2021 (Version: 3.0) EN (English) 2/7
SOLUS E.COLI O157 ELISA ASSAY (EC-048S)

Safety Data Sheet


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 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:
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:
Oxidising agents. 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

Sulfuric acid (7664-93-9)

<table>
<thead>
<tr>
<th>Country</th>
<th>Local name</th>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>Local name</td>
<td>WEL TWA (mg/m³)</td>
<td>0.05 mg/m³ mist</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Remark (WEL)</td>
<td>The mist is defined as the thoracic fraction</td>
<td></td>
</tr>
</tbody>
</table>

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>

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.

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

<table>
<thead>
<tr>
<th>Effect</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Sulfuric acid (7664-93-9)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2140 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>510 mg/m³ 2hr</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Effect</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment, short-term (acute)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long-term (chronic)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Sulfuric acid (7664-93-9)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>42 mg/l Gambusia affinis (Mosquito fish) 96hr</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>29 mg/l Daphnia magna (Water flea) 24hr</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

SOLUS E.COLI O157 ELISA ASSAY (EC-048S)

Persistence and degradability: No data available.

Bovine Serum Albumin (9048-46-8)

Persistence and degradability: No data available.
SOLUS E.COLI O157 ELISA ASSAY (EC-048S)
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

13.1. Waste treatment methods

**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
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:

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.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>H290</th>
<th>May be corrosive to metals.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>

Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4
Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2
Met. Corr. 1 | Corrosive to metals, Category 1
Skin Corr. 1 | Skin corrosion/irritation, Category 1
Skin Corr. 1A | Skin corrosion/irritation, Category 1A
Skin Irrit. 2 | Skin corrosion/irritation, Category 2
STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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.