Olink® Target 48 Detection Kit

Relevant identified uses: Research use only
Uses advised against: Only for laboratory use

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1.4 Emergency telephone number
112 (In Sweden, ask for “Giftinformationscentralen”)

2.1 Classification of the substance or mixture
Does not meet the criteria for classification according to EG no 1272/2008 CLP.
See section 16 for explanations to hazard statements.

2.2 Label elements
According to EG no 1272/2008 CLP

Hazard pictograms: Not applicable
Signal words: Not applicable
Hazard statements: Not applicable
Precautionary statement: Not applicable
Supplemental label elements: Not applicable

2.3 Other hazards
The product does not contain substances considered or suspected to have endocrine disrupting properties.
The product does not contain substances classified PBT or vPvB.
SECTION 3: Composition/information on ingredients

3.2 Mixtures
The Olink® Target 48 Detection Kit consists of eight (8) components:
• Negative Control (Art no 44001)
• PEA Solution (Art no 44002)
• PEA Enzyme (Art no 44003)
• PCR Polymerase (Art no 44004)
• Detection Enzyme (Art no 44005)
• Primer Plate (Art no 44014)
• Detection Solution (Art no 44015)
• PEA Enhancer (Art no 44016)

Detection Solution

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC no</th>
<th>Reg. no</th>
<th>CAS no</th>
<th>Conc. %</th>
<th>Pictogram</th>
<th>Hazard statement¹</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSA</td>
<td>232-936-2</td>
<td>Not available</td>
<td>9048-46-8</td>
<td>1</td>
<td>GHS07</td>
<td>H302 H335</td>
<td>Acute Tox. 4 STOT SE 3</td>
</tr>
</tbody>
</table>

PEA Enhancer

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC no</th>
<th>Reg. no</th>
<th>CAS no</th>
<th>Conc. %</th>
<th>Pictogram</th>
<th>Hazard statement¹</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO²</td>
<td>200-664-3</td>
<td>01-2119431362-50</td>
<td>67-68-5</td>
<td>100</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Negative Control

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC no</th>
<th>Reg. no</th>
<th>CAS no</th>
<th>Conc. %</th>
<th>Pictogram</th>
<th>Hazard statement¹</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Chloroacetamide</td>
<td>201-174-2</td>
<td>01-2119958971-23-0001</td>
<td>79-07-2</td>
<td>&lt; 0.1%</td>
<td>GHS08 GHS06</td>
<td>H301 H317 H361f</td>
<td>Acute Tox. 3 Skin Sens. 1 Repr. 2</td>
</tr>
</tbody>
</table>

All other components in the kit do not contain hazardous substances in concentrations that must be specified according to current legislation.

1) See section 16 for explanations to Hazard statements
2) This substance has an occupational exposure limit value – section 8

SECTION 4: First aid measures

The information below is applicable to all components in the kit unless otherwise specified.

4.1 Description of first aid measures
General recommendations
Keep the person warm and calm. Don't give anything to eat or drink if the person is unconscious. In cases of doubt or when symptoms persist, seek medical attention. Show this safety data sheet to the doctor.

Inhalation
Fresh air.
Consult a doctor if feeling unwell.
**Skin contact**
Wash the skin with soap and water.

**Eye contact**
Rinse the eyes with lukewarm water.
Remove contact lenses.
Contact an eye doctor if symptoms arise and persist.

**Ingestion**
Rinse the mouth with water.

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

**Eye contact**
Eye exposure may cause a slight transient irritation.

**Skin contact**
Negative Control
May cause an allergic skin reaction.
Other components
No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**
No data available.

### SECTION 5: Firefighting measures
The information below is applicable to all components in the kit.

The product is not classified as flammable.

#### 5.1 Extinguishing media
Choose extinguishing media dependent on what is on fire in the vicinity, CO2, dry chemicals, foam or water.

#### 5.2 Special hazards arising from the substance or mixture
No known.

#### 5.3 Advice for firefighters
If necessary, wear self-contained breathing apparatus for firefighting.

### SECTION 6: Accidental release measures
The information below is applicable to all components in the kit.

#### 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective gloves.
Avoid inhalation.

#### 6.2 Environmental precautions
Prevent releases to enter sewer and watercourses.
6.3 Methods and material for containment and cleaning up
Spills should be collected with absorbing material (vermiculite, sand or similar) and put in a sealed container.
Clean the area with water.

6.4 Reference to other sections
See sections 8 and 13.

SECTION 7: Handling and storage
The information below is applicable to all components in the kit.

7.1 Precautions for safe handling
Handle with care to avoid microbial contamination.
Do not eat, drink or smoke while using the product.
Wash hands after use.
Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities
See instructions manual for the product and store as directed by the product packaging.

7.3 Specific end use(s)
Only for laboratory use - Research use only

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits Sweden (AFS 2018:1)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Long-term exposure limit (8h) ppm / mg/m³</th>
<th>Short-term exposure limit (15 min) ppm / mg/m³</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>50/150</td>
<td>150/500</td>
<td>H = can easily penetrate the skin</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Personal protection
Respiratory protection – required if there is a risk that dust or fumes are generated.
Hand protection – wear protective gloves.
Eye protection – use safety glasses if there is a risk of splashing.
Skin protection – wear protective clothing.

Ensure access to eye wash.

Environmental exposure controls
See section 12.
SECTION 9: Physical and chemical properties

The information below is applicable to all components in the kit unless otherwise specified.

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odour</td>
<td>No information available</td>
</tr>
<tr>
<td>pH (at 20 °C)</td>
<td>PEA Solution: 8.8 ± 0.05 Primer plate: 7.5 Detection Solution: 7.35 ± 0.3 Other components: no information available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available</td>
</tr>
<tr>
<td>Ignition temp</td>
<td>No information available</td>
</tr>
<tr>
<td>Density (at 20°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion limit</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No information available</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2 Other information
No information available.

SECTION 10: Stability and reactivity

The information below is applicable to all components in the kit.

10.1 Reactivity
Stable during recommended usage- and storing conditions.

10.2 Chemical stability
Stable during recommended usage- and storing conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available.

10.5 Incompatible materials
No information available.

10.6 Hazardous decomposition products
No data available.
SECTION 11: Toxicological information

The information below is applicable to all components in the kit.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixtures
The mixture has not been tested.
Likely routes of exposure – skin.

Assessment based on ingredients.

Acute toxicity inhalation/oral/dermal
No data available.

Skin corrosion/erosion
No data available.

Serious eye damage/irritation
No data available.

Respiratory or skin sensitization
Negative Control
Contains 2-Chloroacetamide which may cause an allergic skin reaction.
Other components
Does not contain substances classifies as sensitizing.

Carcinogenicity
Does not contain substances classified as carcinogenic.

Germ cell mutagenicity
Does not contain substances classified as mutagenic.

Toxicity for reproduction
Negative Control
Contains 2-Chloroacetamide which is suspected of damaging fertility.
Other components
Does not contain substances classifies as toxic for reproduction.

Specific target organ toxicity – single exposure
No data available.

Specific target organ toxicity – repeated exposure
No data available.

Aspiration hazard
No data available.

11.2 Information on other hazards
No data available.
SECTION 12: Ecological information

The information below is applicable to all components in the kit.

The product has not been tested.

12.1 Toxicity
Based on ingredients - the product is not classified as toxic to the environment.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
The product does not contain compounds classified PBT or vPvB.

12.6 Endocrine disrupting properties
Does not contain substances with endocrine disrupting or suspected endocrine disrupting properties.

12.7 Other adverse effects
No data available.

SECTION 13: Disposal considerations

The information below is applicable to all components in the kit.

13.1 Waste treatment methods

Discarded unused product
Discarded unused product is not classified as hazardous waste according to EU Directive 2008/98/EC.
Observe federal, state and local environmental regulations. Contact a licensed professional waste disposal service.

Packaging
Should be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

The information below is applicable to all components in the kit.

The product is NOT classified as dangerous goods according to ADR/RID/IMO/DGR.

14.1 UN number or ID number
Not applicable.

14.2 UN proper shipping name
Not applicable.
14.3 Transport hazard class(es)
Not applicable.

14.4 Packing group
Not applicable.

14.5 Environmental hazards
The product is not classified as toxic for the environment.

14.6 Special precautions for user
None.

14.7 Maritime transport in bulk according to IMO instruments
The product is not transported in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
ADR – European Agreement Concerning the International Carriage of Dangerous goods by Road.

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

Indication of changes
Notable changes in this safety data sheet are indicated with two vertical lines (||) in the left margin.

Explanations to hazard statements
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.

Abbreviations
PBT: persistent, bioaccumulative and toxic
PBT/vPvB: persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative
vPvB: very persistent and very bioaccumulative

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