SAFETY DATA SHEET

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

1.1 Product identifier
Olink® Probe Kit

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Research use only.
Uses advised against: Only for laboratory use.

1.3 Details of the supplier of the safety data sheet
Olink Proteomics AB
Uppsala Science Park
SE-751 83 Uppsala, SWEDEN
+46 18 444 39 70
www.olink.com
info@olink.com

1.4 Emergency telephone number
In Sweden - dial 112 and ask for Swedish Poisons Information Centre (Giftinformationscentralen)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
EU Regulation 1272/2008
Not classified

EU Directive 1999/45/EG
Not classified

See section 16 for explanations to hazard codes, risk phrases and hazard statements

2.2 Label elements
EU Directive 1999/45/EC
Contains a mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one. May produce an allergic reaction.
“Safety data sheet available for professional user on request.”

S24 Avoid contact with skin

2.3 Other hazards
No known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
The Olink® Probe Kit consists of three (3) components:
- Incubation Solution
- A-probes
- B-probes
Valid for all components in the kit

According to Regulation 1272/2008/EC (CLP)

<table>
<thead>
<tr>
<th>Compound</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>4-morpholino-propanesulfonic acid (MOPS)</td>
<td>214-478-5</td>
<td>-</td>
<td>1132-61-2</td>
<td>1.8-3.6</td>
<td>GHS07</td>
<td>H319</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Warning</td>
<td>H335</td>
<td>STOT SE 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H315</td>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>Mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one</td>
<td>247-500-7</td>
<td>-</td>
<td>55965-84-9</td>
<td>0.0012-0.0014</td>
<td>GHS06</td>
<td>H301</td>
<td>Acute Tox. 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GHS05</td>
<td>H311</td>
<td>Acute Tox. 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GHS09</td>
<td>H331</td>
<td>Acute Tox. 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Danger</td>
<td>H314</td>
<td>Skin Corr. 1B</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H317</td>
<td>Skin Sens. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H400</td>
<td>Aquatic Acute 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H410</td>
<td>Aquatic Chronic 1</td>
</tr>
</tbody>
</table>

According to Directive 1999/45/EC

<table>
<thead>
<tr>
<th>Compound</th>
<th>EC no</th>
<th>Reg. no</th>
<th>CAS no</th>
<th>Conc. %</th>
<th>Danger symbols</th>
<th>Risk phrases¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-morpholino-propanesulfonic acid (MOPS)</td>
<td>214-478-5</td>
<td>-</td>
<td>1132-61-2</td>
<td>1.8-3.6</td>
<td>Xi</td>
<td>R36/37/38</td>
</tr>
<tr>
<td>Mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one</td>
<td>247-500-7</td>
<td>-</td>
<td>55965-84-9</td>
<td>0.0012-0.0014</td>
<td>T/C</td>
<td>R23/24/25</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Xi/N</td>
<td>R43</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R50/53</td>
</tr>
</tbody>
</table>

1) See section 16 for explanations to Hazard statements, Danger symbols & Risk phrases

SECTION 4: First aid measures

Below information is applicable to all reagents in the kit

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.

Skin contact
Wash the skin with soap and water.

Eye contact
Rinse the eyes with lukewarm water for 5 minutes. 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

**Skin contact**
May give rise to an allergic reaction.

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

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

**SECTION 5: Firefighting measures**

Below information is applicable to all reagents in the kit

The product is not 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 fire fighting.

**SECTION 6: Accidental release measure**

Below information is applicable to all reagents in the kit

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

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**

Below information is applicable to all reagents in the kit

7.1 Precautions for safe handling
Avoid contact with skin and eyes.
Do not eat or drink when using the product.
Wash hands after use.
See instructions from the manufacturer.

7.2 Conditions for safe storage, including any incompatibilities
See instructions from the manufacturer.

7.3 Specific end use(s)
Only for laboratory use - Research use only
SECTION 8: Exposure controls/personal protection

Below information is applicable to all reagents in the kit

8.1 Control parameters
Workplace exposure limits Sweden (AFS 2011:18)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Long-term exposure limit (8h)</th>
<th>Short-term exposure limit (15 min)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mg/m³ / ppm</td>
<td>mg/m³ / ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>No limit values</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**Personal protection**
Respiratory protection – not normally required.
Protective gloves – Wear appropriate gloves to prevent skin exposure.
Facial protection – not normally required. Use protective goggles if there is a risk of splashing.
Protective clothing – not normally required.
Access to eye wash.
Avoid skin contact.
Wash hands before breaks and at the end of workday.

*Environmental exposure controls*
See section 13.

SECTION 9: Physical and chemical properties

Below information is applicable to all reagents in the kit

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>transparent</td>
</tr>
<tr>
<td>Odour</td>
<td>no information</td>
</tr>
<tr>
<td>pH (20°C)</td>
<td>no information</td>
</tr>
<tr>
<td>Odour</td>
<td>no information</td>
</tr>
<tr>
<td>Melting point</td>
<td>no information</td>
</tr>
<tr>
<td>Flash point</td>
<td>no information</td>
</tr>
<tr>
<td>Flammability</td>
<td>not flammable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no information</td>
</tr>
<tr>
<td>Ignition temp</td>
<td>no information</td>
</tr>
<tr>
<td>Density (at 20°C)</td>
<td>no information</td>
</tr>
<tr>
<td>Viscosity</td>
<td>no information</td>
</tr>
<tr>
<td>Explosion limit</td>
<td>no information</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no information</td>
</tr>
</tbody>
</table>

9.2 Other information
The product is soluble in water.

SECTION 10: Stability and reactivity

Below information is applicable to all reagents in the kit

10.1 Reactivity
Not liable to react during normal handling- and storage conditions.

10.2 Chemical stability
Stable during normal handling- and storage conditions.
10.3 Possibility of hazardous reactions
Stable during normal handling- and storage conditions.

10.4 Conditions to avoid
No known.

10.5 Incompatible materials
No known.

10.6 Hazardous decomposition products
No known.

SECTION 11: Toxicological information

Below information is applicable to all reagents in the kit

11.1 Information on toxicological effects

Substances

MOPS
Inhalation:
May be irritating.

Skin contact:
May be irritating.

Eye contact:
May be irritating.

Ingestion:
No information.

Mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one
Inhalation:
LC50 Inhalation rat 4h: <0.2 mg/l

Skin contact:
LD50 Dermal rabbit: 80 mg/kg body weight
May cause sensitisation by skin contact.

Eye contact:
The compound causes burns.

Ingestion:
LD50 Oral rat: 53-60 mg/kg body weight

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

Assessment based on ingredients

<table>
<thead>
<tr>
<th></th>
<th>Acute effects</th>
<th>Chronic effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known</td>
<td>No known</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No known</td>
<td>No known</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May be mildly irritating</td>
<td>No known</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known</td>
<td>No known</td>
</tr>
</tbody>
</table>

Sensitisation
Sensitive persons may get an allergic reaction upon repeated skin exposure.

Repeated dose toxicity
Not expected to be toxic upon repeated exposure.
Carcinogenicity
Not expected to be carcinogenic.

Mutagenicity
Not expected to be mutagenic.

Toxicity for reproduction
Not expected to be toxic for reproduction.

Interactive effects
No known.

SECTION 12: Ecological information

Below information is applicable to all reagents in the kit

12.1 Toxicity
The product has not been tested.
Based on ingredients - the product is NOT classified toxic to the environment.

Toxicity for components
Mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one
LC₅₀ Fish 96h: 6.1 mg/l Species: Brachydanio rerio
EC₅₀ Daphnia 48h: 0.18 mg/l Species: D. magna

12.2 Persistence and degradability
Toxicity for components
Mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one
39-62% degraded in 28 days OECD 301C

12.3 Bioaccumulative potential
Toxicity for components
Mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one
BCF: 114

12.4 Mobility in soil
No information

12.5 Results of PBT and vPvB assessment
No information.

12.6 Other adverse effects
No known.

SECTION 13: Disposal considerations

Below information is applicable to all reagents 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

**Below information is applicable to all reagents in the kit**

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

<table>
<thead>
<tr>
<th><strong>ADR/RID (road and railroad)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN number</strong></td>
</tr>
<tr>
<td><strong>UN proper shipping name</strong></td>
</tr>
<tr>
<td><strong>Transport hazard class</strong></td>
</tr>
<tr>
<td><strong>Packing group</strong></td>
</tr>
<tr>
<td><strong>Classification code</strong></td>
</tr>
<tr>
<td><strong>Tunnel restriction code</strong></td>
</tr>
<tr>
<td><strong>Label</strong></td>
</tr>
<tr>
<td><strong>Limited quantities (LQ)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>IMO (maritime)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN number</strong></td>
</tr>
<tr>
<td><strong>UN proper shipping name</strong></td>
</tr>
<tr>
<td><strong>Transport hazard class</strong></td>
</tr>
<tr>
<td><strong>Packing group</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>EmS</strong></td>
</tr>
<tr>
<td><strong>Marine pollutant</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ICAO (air)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN number</strong></td>
</tr>
<tr>
<td><strong>UN proper shipping name</strong></td>
</tr>
<tr>
<td><strong>Transport hazard class</strong></td>
</tr>
<tr>
<td><strong>Packing group</strong></td>
</tr>
<tr>
<td><strong>ICAO labels</strong></td>
</tr>
</tbody>
</table>

**Environmental hazards**
The product is not classified toxic for the environment

**Special Precautions**
None in particular.

**Bulk transport according to Annex II, Marpol 73/78 and IBC code**
The product is not transported in bulk.

### SECTION 15: Regulatory information

**Below information is applicable to all reagents in the kit**

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**

Chemical Safety Report is not available for the product.
SECTION 16: Other information

Indication of changes
-

Abbreviations
-

Key literature
This MSDS is based on information from the manufacturer and databases of hazardous substances (Chemical Substances)

Classification and procedure used to derive the classification for mixtures

Relevant hazard codes, risk phrases and hazard statements in section 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</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>H317</td>
<td>May cause an allergic skin reaction</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>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>R23/24/25</td>
<td>Toxic by inhalation, in contact with skin and if swallowed</td>
</tr>
<tr>
<td>R34</td>
<td>Causes burns</td>
</tr>
<tr>
<td>R36/37/38</td>
<td>Irritating to eyes, respiratory system and skin</td>
</tr>
<tr>
<td>R43</td>
<td>May cause sensitization by skin contact</td>
</tr>
<tr>
<td>R50/53</td>
<td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
</tbody>
</table>

Advice on training
See section 8.

Other
-