

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)

Compound	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
4-morpholino-propanesulfonic acid (MOPS)	214-478-5	-	1132-61-2	1.8-3.6	GHS07 Warning	H319 H335 H315	Eye Irrit. 2 STOT SE 3 Skin Irrit. 2
Mixture in the ratio 3:1 of 5-Chloro-2-methylisothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	247-500-7	-	55965-84-9	0.0012-0.0014	GHS06 GHS05 GHS09 Danger	H301 H311 H331 H314 H317 H400 H410	Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1

According to Directive 1999/45/EC

Compound	EC no	Reg. no	CAS no	Conc. %	Danger symbols	Risk phrases ¹
4-morpholino-propanesulfonic acid (MOPS)	214-478-5	-	1132-61-2	1.8-3.6	Xi	R36/37/38
Mixture in the ratio 3:1 of 5-Chloro-2-methylisothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	247-500-7	-	55965-84-9	0.0012-0.0014	T C Xi N	R23/24/25 R34 R43 R50/53

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)

Compound	Long-term exposure limit (8h) mg/m ³ / ppm	Short-term exposure limit (15 min) mg/m ³ / ppm	Note
-	-	-	No limit values

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

Appearance	liquid
Colour	transparent
Odour	no information
pH (20°C)	no information
Melting point	no information
Flash point	no information
Flammability	not flammable
Boiling point	no information
Ignition temp	no information
Density (at 20°C)	no information
Viscosity	no information
Explosion limit	no information
Vapour pressure	no information

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

	Acute effects	Chronic effects
Inhalation	No known	No known
Skin contact	No known	No known
Eye contact	May be mildly irritating	No known
Ingestion	No known	No known

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.

ADR/RID (road and railroad)

UN number

UN proper shipping name

Transport hazard class

Packing group

Classification code

Tunnel restriction code

Label

Limited quantities (LQ)

IMO (maritime)

UN number

UN proper shipping name

Transport hazard class

Packing group

Flash point

EmS

Marine pollutant

ICAO (air)

UN number

UN proper shipping name

Transport hazard class

Packing group

ICAO labels

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.

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

AFS 2011:18 - Hygieniska gränsvärden – *Occupational limit values in Sweden.*

15.2 Chemical safety assessment

Chemical Safety Report is not available for the product.

SECTION 16: Other information

Indication of changes

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Abbreviations

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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

The classification of the product is based on classification of the components according to REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and Council Directive 67/548/EEC

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

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation.
H331	Toxic if inhaled
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R36/37/38	Irritating to eyes, respiratory system and skin
R43	May cause sensitization by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Advice on training

See section 8.

Other

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