

Safety Data Sheet

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

1.1 Product identifier

98001 Olink® Explore HT Probes

|| 98104 Olink® Explore HT (Mx 688) stored at 4 °C

|| 98105 Olink® Explore HT (Mx 2064) stored at 4 °C

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

Salagatan 16F

SE-753 30 Uppsala, SWEDEN

+46 18 444 39 70

www.olink.com

info@olink.com

1.4 Emergency telephone number

+46 18 444 39 70 (office hours) Olink Proteomics

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

EU Regulation 1272/2008

Not classified

See section 16 for explanations to hazard statements.

2.2 Label elements

EU Regulation 1272/2008

Hazard pictogram none

Signal word none

Hazard statements none

Precautionary statement none

Supplemental Label elements

Forward probes & Reverse probes

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Incubation solution

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 Other hazards

The Forward probes and Reverse probes contain 0.1% Triton X-100. The Incubation solution contains 0.171 % Triton X-100. The compound is listed in Reach Annex XIV due to endocrine disrupting properties. See also Section 15.

The product does not contain compounds classified PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

The Olink® Explore kits consist of eighteen (18) components:

- 8 Forward probes (Art no 88030-88045)
- 8 Reverse probes (Art no 88030-88045)
- Incubation solution (Art no 87004)
- PCR additive (Art no 88003)

Forward probes (Art no 88030-88045) & Reverse probes (Art no 88030-88045)

Compound	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
Triton-X ²	618-344-0	n.a.	9002-93-1	0.1	GHS05	H302	Acute Tox. 4
					GHS07	H315	Skin Irrit. 2
					GHS09	H318	Eye Dam. 1
					Danger	H400	Aquatic Acute 1 (M=10)
						H410	Aquatic Chronic 1
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	611-341-5	n.a.	55965-84-9	<0.0015	GHS05	H301	Acute Tox. 3
					GHS06	H310	Acute Tox. 2
					GHS09	H314	Skin Corr. 1C
					Danger	H317	Skin Sens. 1A
						H318	Eye Dam. 1
						H330	Acute Tox. 2
						H400	Aquatic Acute 1 (M=100)
	H410	Aquatic Chronic 1 (M=100)					

Incubation solution (Art no 87004)

Compound	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
Triton-X ²	618-344-0	n.a.	9002-93-1	0.171	GHS05	H302	Acute Tox. 4
					GHS07	H315	Skin Irrit. 2
					GHS09	H318	Eye Dam. 1
					Danger	H400	Aquatic Acute 1 (M=10)
						H410	Aquatic Chronic 1

Compound	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
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					GHS06	H310	Acute Tox. 2
					GHS09	H314	Skin Corr. 1C
					Danger	H317	Skin Sens. 1A
						H318	Eye Dam. 1
						H330	Acute Tox. 2
						H400	Aquatic Acute 1 (M=100)
H410	Aquatic Chronic 1 (M=100)						

PCR additive (Art no 88003)

Compound	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
DMSO ³	200-664-3	01- 2119431362- 50	67-68-5	100	–	–	–

1) See section 16 for explanations to Hazard statements

2) Triton X-100 (CAS No 9002-93-1) is listed in Reach (1907/2006) Annex XIV due to endocrine disrupting properties. See also Section 15.

3) The compound has an Occupational limit value. See section 8.

SECTION 4: First aid measures

Below information is applicable to all reagents in the kit if nothing else is stated.

4.1 Description of first aid measures

General recommendations

Keep the person warm and calm. Do not 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.

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

Forward probes, Reverse probes and Incubation solution may produce 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 firefighting.

SECTION 6: Accidental release measures

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

8.1 Control parameters

Workplace exposure limits Sweden (AFS 2018:1)

PCR additive (Art no 88003)

Compound	Long-term exposure limit (8h) ppm / mg/m ³	Short-term exposure limit (15 min) ppm / mg/m ³	Note
DMSO	150 / 50	500 / 150	H = May easily penetrate the skin

8.2 Exposure controls

Personal protection

Respiratory protection – not normally required.

Protective gloves – wear protective gloves.

Facial protection – not normally required. Use protective goggles if there is a risk of splashing.

Protective clothing – not normally required.

Access to eye wash.

Wash hands before breaks and at the end of workday.

Environmental exposure controls

See section 13.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Colourless
Odour	No information
pH (at 20 °C)	Forward probes: 6.7 ± 0.1 Reverse probes: 6.7 ± 0.1 Incubation solution: 7.2 ± 0.1 PCR additive: n.a.
Melting point	Forward probes: ca 0 °C Reverse probes: ca 0 °C Incubation solution: ca 0 °C PCR additive: 16-19 °C
Flash point	Forward probes: not flammable Reverse probes: not flammable Incubation solution: no info PCR additive: 87 °C
Flammability	Not flammable
Boiling point	Forward probes: ca 100 °C Reverse probes: ca 100 °C Incubation solution: ca 100 °C PCR additive: 189 °C
Ignition temp	No information
Density (at 20°C)	Incubation solution: 1 g/cm ³ PCR additive: 1.1 g/cm ³
Viscosity	No information
Explosion limit	No information

9.2 Other information

No information.

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 if nothing else is stated

11.1 Information on toxicological effects

Mixtures

The mixtures have not been tested.

Likely routes of exposure – skin.

Assessment based on ingredients

	Acute effects	Chronic effects
Inhalation	No known	No known
Skin contact	Forward probes: no known Reverse probes: no known Incubation solution: no known PCR additive: DMSO may easily penetrate the skin	No known
Eye contact	May cause a slight transient irritation	No known
Ingestion	No known	No known

Sensitisation

Forward probes, Reverse probes and Incubation solution: May produce an allergic skin reaction.

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.

11.2 Information on other hazards**Endocrine disrupting properties**

Forward probes, Reverse probes and Incubation solution contain Triton X-100: Triton X-100 is listed in Annex XIV in Regulation (EC) No. 1907/2006 (REACH) due to endocrine disrupting properties. See also section 15.

Interactive effects

No known.

SECTION 12: Ecological information

Below information is applicable to all reagents in the kit if nothing else is stated

12.1 Toxicity

The product has not been tested.

Based on ingredients – the product is NOT classified toxic to the environment.

12.2 Persistence and degradability

No information.

12.3 Bioaccumulative potential

No information.

12.4 Mobility in soil

No information

12.5 Results of PBT and vPvB assessment

No information.

12.6 Endocrine disrupting properties

Forward probes, Reverse probes and Incubation solution contain Triton X-100: Triton-X-100 is listed in Annex XIV in Regulation (EC) No. 1907/2006 (REACH) due to endocrine disrupting properties. See also section 15.

12.7 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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Triton X-100 (CAS No 9002-93-1) is listed in REACH Regulation (1907/2006) Annex XIV SUBSTANCES SUBJECT TO AUTHORISATION (entry 42). Used in scientific research and development the compound is exempted from authorization.

Legislation

ADR – European Agreement Concerning the International Carriage of Dangerous goods by Road.
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures
DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
AFS 2018:1 - 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

16.1 Indication of changes

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16.2 Abbreviations

PBT Persistent, Bioaccumulative, Toxic
vPvB very Persistent, very Bioaccumulative

16.3 Key literature

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

16.4 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

16.5 Relevant hazard statements in section 3

H301 Toxic if swallowed
H302 Harmful if swallowed
H310 Fatal in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H318 Causes serious eye damage
H317 May cause an allergic skin reaction
H330 Fatal if inhaled
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

16.6 Advice on training

See section 8.

16.7 Other

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