

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.5
Revision Date 24.04.2025
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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : MILLIPLEX MAP Bovine Cytokine/Chemokine Panel 1

Product Number : BCYT1-33K
Catalogue No. : 9Z4827
Brand : Millipore
REACH No. : This product is a mixture. REACH Registration Number see section 3.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Biochemical research/analysis

1.3 Details of the supplier of the safety data sheet

Company :

1.4 Emergency telephone

Emergency Phone # : +(44)-870-8200418 (CHEMTREC (GB))
+(353)-19014670 (CHEMTREC Ireland)
001-803-017-9114 (CHEMTREC India)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, (Category 4)	H302: Harmful if swallowed.
Acute toxicity, (Category 4)	H332: Harmful if inhaled.
Acute toxicity, (Category 4)	H312: Harmful in contact with skin.
Serious eye damage, (Category 1)	H318: Causes serious eye damage.
Skin sensitization, (Category 1)	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, (Category 2), Respiratory Tract	H373: May cause damage to organs through prolonged or repeated exposure.



Long-term (chronic) aquatic hazard, (Category 2)

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Danger

Hazard Statements

H302 + H312 + H332

Harmful if swallowed, in contact with skin or if inhaled.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H373

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

H411

Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352 + P312

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

P304 + P340 + P312

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314

Get medical advice/ attention if you feel unwell.

Supplemental Hazard Statements

none

Reduced Labeling (<= 125 ml)

Pictogram



Signal Word

Danger

Hazard Statements

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

Precautionary Statements

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Refer to component SDS

SECTION 4: First aid measures

Refer to component SDS

SECTION 5: Firefighting measures

Refer to component SDS

SECTION 6: Accidental release measures

Refer to component SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

Refer to component SDS



SECTION 9: Physical and chemical properties
Refer to component SDS

Refer to component SDS

SECTION 10: Stability and reactivity

Refer to component SDS

Refer to component SDS

SECTION 11: Toxicological information

Refer to component SDS

Refer to component SDS

SECTION 12: Ecological information

Refer to component SDS

Refer to component SDS

SECTION 13: Disposal considerations

Refer to component SDS

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

IMDG: - IATA: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

IMDG: - IATA: -

IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

IMDG: - IATA: -

IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

IMDG Marine pollutant: no IATA: no

IATA: no

14.6 Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Kit Components:

10X Wash Buffer - MILLIPLEX	Millipore	L-WB	Skin Sens. 1; Aquatic Chronic 2; H317, H411
Assay Buffer	Sigma-Aldrich	LAB-7	Eye Irrit. 2; H319
Serum Matrix	Sigma-Aldrich	BCYT-SM	Aquatic Chronic 3; H412
Bovine Cytokine/Chemokine Panel 1 Standard	Sigma-Aldrich	BCYT1-8033	Acute Tox. 4; Eye Dam. 1; STOT RE 2; Aquatic Chronic 3; H302 + H312 + H332, H318, H373, H412
Bovine Cytokine/Chemokine Panel 1 Quality Controls 1 & 2	Sigma-Aldrich	BCYT1-6033	Acute Tox. 4; Eye Dam. 1; STOT RE 2; Aquatic Chronic 3; H302 + H312 + H332, H318, H373, H412
Bovine Cytokine/Chemokine Panel 1 Detection Antibodies	Sigma-Aldrich	BCYT1-1033	Eye Irrit. 2; H319
Streptavidin-Phycoerythrin	Sigma-Aldrich	L-SAPE17	Eye Irrit. 2; H319
19-IFN γ Beads Magnetic	Sigma-Aldrich	BIFNG-MAG	
25-IL-1 α Beads Magnetic	Sigma-Aldrich	BIL1A-MAG	
27-IL-1 β Beads Magnetic	Sigma-Aldrich	BIL1B-MAG	
34-IL-4 Beads Magnetic	Sigma-Aldrich	BIL4-MAG	
44-IL-6 Beads Magnetic	Sigma-Aldrich	BIL6-MAG	
46-IL-8 Beads Magnetic	Sigma-Aldrich	BIL8-MAG	
53-IL-10 Beads Magnetic	Sigma-Aldrich	BIL10-MAG	
56-IL-17a Beads Magnetic	Sigma-Aldrich	BIL17A-MAG	
63-IL-36RA Beads Magnetic	Sigma-Aldrich	BIL36RA-MAG	
64-IP-10 Beads Magnetic	Sigma-Aldrich	BIP10-MAG	
65-MCP-1 Beads Magnetic	Sigma-Aldrich	BMCP1-MAG	
61-MIP-1 α Beads Magnetic	Sigma-Aldrich	BMIP1A-MAG	
75-MIP-1 β Beads Magnetic	Sigma-Aldrich	BMIP1B-MAG	
76-TNF α Beads Magnetic	Sigma-Aldrich	BTNFA-MAG	
78-VEGF-A Beads Magnetic	Sigma-Aldrich	BVEGFA-MAG	



Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture

Acute Tox.4	H302
Acute Tox.4	H332
Acute Tox.4	H312
Eye Dam.1	H318
Skin Sens.1	H317
STOT RE2	H373
Aquatic Chronic2	H411

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method



Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Kit Components:

10X Wash Buffer - MILLIPLEX					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Millipore - L-WB		Warning	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.	Avoid breathing mist or vapors. IF ON SKIN: Wash with plenty of water. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/attention. Avoid release to the environment. Wear protective gloves.	

Assay Buffer					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - LAB-7		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear eye protection/face protection. If eye irritation persists: Get medical advice/attention.	



Serum Matrix					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BCYT-SM			Harmful to aquatic life with long lasting effects.	Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant.	

Bovine Cytokine/Chemokine Panel 1 Standard					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BCYT1-8033		Danger	Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye damage. May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.	Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell.	



Bovine Cytokine/Chemokine Panel 1 Quality Controls 1 & 2					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BCYT1-6033		Danger	Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye damage. May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.	Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell.	

Bovine Cytokine/Chemokine Panel 1 Detection Antibodies					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BCYT1-1033		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	



				present and easy to do. Continue rinsing. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention.	
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Streptavidin-Phycoerythrin

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - L-SAPE17		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention.	

19-IFN γ Beads Magnetic

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIFNG-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

25-IL-1 α Beads Magnetic

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL1A-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.



27-IL-1β Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL1B-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

34-IL-4 Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL4-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

44-IL-6 Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL6-MAG					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

46-IL-8 Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL8-MAG					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

53-IL-10 Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL10-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.



56-IL-17a Beads Magentic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL17A-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

63-IL-36RA Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIL36RA-MAG					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

64-IP-10 Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BIP10-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

65-MCP-1 Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BMCP1-MAG					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

61-MIP-1 alpha Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BMIP1A-MAG					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.



75-MIP-1β Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BMIP1B-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

76-TNFα Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BTNFA-MAG					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

78-VEGF-A Beads Magnetic					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - BVEGFA-MAG					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

