Miltenyi Biotec B.V. & Co. KG

Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany

Phone: +49 2204 8306-0
E-Mail: macs@miltenyibiotec.de
Web: www.miltenyibiotec.com

Responsible Department: Technical Support
Phone: +49 2204 8306-3803
E-Mail: technicalsupport@miltenyi.com

Printdate: 26.11.2025

Product ID: µMACS HA Isolation Kit
Product code: 130-091-122

Statement

A safety datasheet is provided for the following component(s) :

120-001-348: Lysis Buffer 50 mL
120-001-349: Wash Buffer 1 50 mL

If the product contains other components, the following is valid:
It is hereby stated that the respective product poses no health risk or physical and environmental hazard. It is not classified as hazardous based on our evaluations following the standards of the European Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures. A safety data sheet is not required according to Regulation (EC) No. 1907/2006 (REACH).
Despite the classification as non-hazardous, we strongly recommend reviewing the data sheets or instructions for use as well as applying appropriate safety measures like using personal protective equipment and considering disposal legislation and local regulations when handling chemicals and reagents.
Please contact technicalsupport@miltenyi.com for any further questions or additional safety information.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Lysis Buffer 50 mL

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

1.1. Product identifier

Lysis Buffer 50 mL

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

Use of the substance/mixture

Scientific research and development

1.3. Details of the supplier of the safety data sheet

Company name:	Miltenyi Biotec B.V. & Co. KG
Street:	Friedrich-Ebert-Str. 68
Place:	D-51429 Bergisch Gladbach
Telephone:	+49 2204 8306-0
E-mail (Contact person):	technicalsupport@miltenyi.com
Internet:	www.miltenyibiotec.com
Responsible Department:	Technical Support Tel.: +49 2204 8306 3803

1.4. Emergency telephone number:

GBK GmbH +49 (0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

No risks worthy of mention.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Composition/information on ingredients

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64366-70-7	ECOSURF™ EH-9			1 - < 5 %
	Eye Irrit. 2; H319			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

After contact with skin

Water and soap. In case of skin irritation, seek medical treatment. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Seek medical advice immediately.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Not combustible. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation of aerosol.

Advice on protection against fire and explosion

No special precautionary measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

The following must be prevented: UV-radiation/sunlight.

Further information on storage conditions

storage temperature: 2-8°C

7.3. Specific end use(s)

Scientific research and development

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Personal protection equipment

Hand protection

Tested protective gloves are to be worn: Single-use gloves. German Industry Norms (DIN) / European Norms (EN): EN ISO 374
Suitable material:NBR (Nitrile rubber).
Recommended protective gloves brand: Supreno, Manufacturer. Microfex Cooperation
Or comparable articles from other companies.

Skin protection

Personal protection equipment
Wash hands before breaks and after work.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless - light yellow
Odour:	odourless
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	not determined
Decomposition temperature:	not determined
pH-Value (at 21 °C):	8,0
Viscosity / kinematic:	not determined
Water solubility:	highly soluble.
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 21 °C):	1 g/cm³
Relative vapour density:	not determined
Particle characteristics:	Nanoform: none

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid:	not determined
Gas:	not determined

Other safety characteristics

Evaporation rate:	not determined
Viscosity / dynamic:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

May cause decomposition by long-term light influence.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

Not listed

SECTION 12: Ecological information

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria).

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64366-70-7	ECOSURF™ EH-9			
	OECD Prüfrichtlinie 301F	>60%		Sigma SDS 6.0
	Leicht biologisch abbaubar			

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Remove according to the regulations.

Contaminated packaging

Handle contaminated packaging in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: -
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): -
14.4. Packing group: -

Inland waterways transport (ADN)

14.1. UN number or ID number: -
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): -
14.4. Packing group: -

Marine transport (IMDG)

14.1. UN number or ID number: -
14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es): -
14.4. Packing group: -

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: -

14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.

14.3. Transport hazard class(es): -

14.4. Packing group: -

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

none

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water hazard class (D): - - non-hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Indication of changes:
SECTION 1: Identification of the substance/mixture and of the company/undertaking (Emergency telephone number)
SECTION 7: Handling and storage
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
Eye Irrit: Eye irritation

Relevant H and EUH statements (number and full text)

H319	Causes serious eye irritation.
EUH210	Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Wash Buffer 1 50 mL

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

1.1. Product identifier

Wash Buffer 1 50 mL

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

Use of the substance/mixture

Scientific research and development

1.3. Details of the supplier of the safety data sheet

Company name:	Miltenyi Biotec B.V. & Co. KG
Street:	Friedrich-Ebert-Str. 68
Place:	D-51429 Bergisch Gladbach
Telephone:	+49 2204 8306-0
E-mail (Contact person):	technicalsupport@miltenyi.com
Internet:	www.miltenyibiotec.com
Responsible Department:	Technical Support Tel.: +49 2204 8306 3803

1.4. Emergency telephone number:

GBK GmbH +49 (0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

No risks worthy of mention.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Composition/information on ingredients

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64366-70-7	ECOSURF™ EH-9			1 - < 5 %
	Eye Irrit. 2; H319			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

In case of inhaling spray mist, consult a physician.

After contact with skin

After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Seek medical advice immediately.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Not combustible. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Take up mechanically, placing in appropriate containers for disposal. Wash with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation of aerosol.

Advice on protection against fire and explosion

No special precautionary measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

The following must be prevented: UV-radiation/sunlight.

Further information on storage conditions

storage temperature: 2-8°C

7.3. Specific end use(s)

Scientific research and development

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Personal protection equipment

Hand protection

Tested protective gloves are to be worn: Single-use gloves. German Industry Norms (DIN) / European Norms (EN): EN ISO 374
Suitable material:NBR (Nitrile rubber).
Recommended protective gloves brand: Supreno, Manufacturer. Microfex Cooperation
Or comparable articles from other companies.

Skin protection

Personal protection equipment
Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: aerosol or mist generation.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	odourless
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	not determined
Decomposition temperature:	not determined
pH-Value (at 21 °C):	8.0
Viscosity / kinematic:	not determined
Water solubility:	highly soluble.
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 21 °C):	1 g/cm³
Relative vapour density:	not determined

Particle characteristics: Nanoform: none

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid:	not determined
Gas:	not determined

Other safety characteristics

Evaporation rate:	not determined
Viscosity / dynamic:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

May cause decomposition by long-term light influence.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

Not listed

SECTION 12: Ecological information

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64366-70-7	ECOSURF™ EH-9			
	OECD Prüfrichtlinie 301F	>60%		Sigma SDS 6.0
	Leicht biologisch abbaubar			

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Remove according to the regulations.

Contaminated packaging

Handle contaminated packaging in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es):	-
14.4. Packing group:	-

Inland waterways transport (ADN)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es):	-
14.4. Packing group:	-

Marine transport (IMDG)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	Not a hazardous material with respect to these transportation regulations.
14.3. Transport hazard class(es):	-
14.4. Packing group:	-

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	-

14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.

14.3. Transport hazard class(es): -

14.4. Packing group: -

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

none

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Indication of changes:
SECTION 1: Identification of the substance/mixture and of the company/undertaking (Emergency telephone number)
SECTION 2. Hazards identification
SECTION 7: Handling and storage
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
Eye Irrit: Eye irritation

Relevant H and EUH statements (number and full text)

H319	Causes serious eye irritation.
EUH210	Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)