

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 5

MIKROGEN
D I A G N O S T I K

Page 1/7

recomLine TESTSTR

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

1.1. Product identifier

Trade name/designation:

recomLine TESTSTR

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH

Anna Sigmund Strasse 10

82061 Neuried

Deutschland

Telephone: 089-54801119

E-mail: hendlmeier@mikrogen.de

Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable solids (<i>Flam. Sol. 1</i>)	H228: Flammable solid.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02

Flame

Signal word: Danger

Hazard statements for physical hazards

H228 Flammable solid.

Supplemental hazard information: none

Precautionary statements Prevention

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.

Precautionary statements Response

P370 + P378	In case of fire: Use ... to extinguish.
P370 + P380	In case of fire: Evacuate area.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 5

MIKROGEN
DIAGNOSTIK

Page 2/7

recomLine TESTSTR

Precautionary statements Response

P374 Fight fire with normal precautions from a reasonable distance.

Precautionary statements Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements Disposal

P501 Dispose of contents/container to


2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 9004-70-0 EC No.: 618-392-2	Cellulosenitrat Flam. Sol. 1 (H228)  Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg	≤ 25 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Remove affected person from the danger area and lay down.

Following inhalation:

No special measures are necessary.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Rinse mouth immediately and drink 1 glass of of water.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

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

No known symptoms to date.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water

Unsuitable extinguishing media:

Foam Dry extinguishing powder Carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 5

MIKROGEN
D I A G N O S T I K

Page 3/7

recomLine TESTSTR

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment:

Use appropriate respiratory protection.

Emergency procedures:

Remove all sources of ignition.

6.1.2. For emergency responders

Personal protection equipment:

Use appropriate respiratory protection.

6.2. Environmental precautions

No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Wash with plenty of water.

6.4. Reference to other sections

Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Working places should be designed to allow cleaning at any time.

Fire prevent measures:

Keep away from sources of ignition - No smoking.

Environmental precautions:

See section 8.3 of the safety data sheet.

Advices on general occupational hygiene

When using do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Take precautionary measures against static discharge. at room temperature. Protect from direct sunlight.

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Temperature : 15°C-35°C ; Relative air humidity <=70 %

Hints on storage assembly:

Do not store together with: other organic solvents, washing liquids and mother liquors; Oxidizing agent, oxidising

Storage class (TRGS 510, Germany): 4.1A - Other potentially explosive hazardous substances

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024
Print date: 3 Dec 2024
Version: 5



Page 4/7

recomLine TESTSTR

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Suitable gloves type

Respiratory protection:

Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: solid

Colour: white

Odour: odourless

flammability: Yes

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	not applicable	
Melting point	not applicable	
Freezing point	No data available	
Initial boiling point and boiling range	not applicable	
Flash point	not applicable	
Evaporation rate	No data available	
Upper/lower flammability or explosive limits	not applicable	
Vapour pressure	No data available	
Vapour density	not applicable	
Density	No data available	
Relative density	not applicable	
Bulk density	No data available	
Water solubility	No data available	
Dynamic viscosity	not applicable	

particle characteristics:

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data 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 known hazardous reactions.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 5



Page 5/7

recomLine TESTSTR

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Gases/vapours, combustible Gases/vapours, flammable Oxidising agent, strong Acid Alkali (lye)

10.6. Hazardous decomposition products

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

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

Cellulosenitrat CAS No.: 9004-70-0 EC No.: 618-392-2

LD50 oral: >5,000 mg/kg (Ratte)

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Cellulosenitrat CAS No.: 9004-70-0 EC No.: 618-392-2

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects





No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3270	UN 3270	UN 3270	UN 3270
14.2. UN proper shipping name			
NITROCELLULOSE MEMBRANE FILTERS	NITROCELLULOSE MEMBRANE FILTERS	NITROCELLULOSE MEMBRANE FILTERS	NITROCELLULOSE MEMBRANE FILTERS
14.3. Transport hazard class(es)			
 4.1	 4.1	 4.1	 4.1

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 5



recomLine TESTSTR

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No data available	No data available	No data available	No data available
14.6. Special precautions for user			
No data available	No data available	No data available	No data available

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Water hazard class

WGK:

nwg - non-hazardous to water

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD ₅₀	Lethal (fatal) Dose 50%
NFPA	National Fire Protection Association
PBT	persistent and bioaccumulative and toxic
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable solids (<i>Flam. Sol. 1</i>)	H228: Flammable solid.	

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 5

MIKROGEN
D I A G N O S T I K

Page 7/7

recomLine TESTSTR

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H228	Flammable solid.

16.6. Training advice

No data available

16.7. Additional information

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
DIAGNOSTIK

Page 1/9

recomLine , recomWell CONJ IgG/IgM/ IgA

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

1.1. Product identifier

Trade name/designation:

recomLine , recomWell CONJ IgG/IgM/ IgA

Other means of identification:

CONJ IgG, IgM, IgA

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH

Anna Sigmund Strasse 10

82061 Neuried

Deutschland

Telephone: 089-54801119

E-mail: hendlmeier@mikrogen.de

Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

2-chloroacetamide

Hazard statements for health hazards	
H317	May cause an allergic skin reaction.

Supplemental hazard information: none

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
DIAGNOSTIK

Page 2/9

recomLine , recomWell CONJ IgG/IgM/ IgA

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
------	---

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
P321	Specific treatment (see ... on this label).
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Adverse physicochemical effects:

No data available



SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Reagents and laboratory chemicals

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 79-07-2 EC No.: 201-174-2 Index No.: 616-036-00-0	2-chloroacetamide Acute Tox. 3 (H301), Repr. 2 (H361f***), Skin Sens. 1 (H317)  Danger Specific concentration limit (SCL) Skin Sens. 1; H317: C ≥ 0.1% Acute Toxicity Estimate ATE (oral) 138 mg/kg	0 - ≤ 5 weight-%
CAS No.: 26172-54-3 EC No.: 247-499-3	2-Methyl-2H-isothiazol-3 Acute Tox. 2 (H330), Acute Tox. 3 (H301, H311), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Corr. 1 (H314), Skin Sens. 1 (H317)  Danger M-factor (acute): 1 M-factor (chronic): 1 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.0015% Acute Toxicity Estimate ATE (oral) 175 mg/kg ATE (dermal) 242 mg/kg ATE (inhalation, dust/mist) 0.11 mg/L	0 - ≤ 5 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 3/9

recomLine , recomWell CONJ IgG/IgM/ IgA

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

Allergic reactions

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:

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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 containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special measures are necessary.

Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 4/9

recomLine , recomWell CONJ IgG/IgM/ IgA

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Colour: colourless

Odour: odourless

flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7.2 - 7.6	20 °C	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Decomposition temperature	No data available		
Flash point	not applicable		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	No data available		
Relative density	No data available		
Bulk density	No data available		

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 5/9

recomLine , recomWell CONJ IgG/IgM/ IgA

Parameter	Value	at °C	① Method ② Remark
Water solubility	No data available		
Partition coefficient: n-octanol/water	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

No known hazardous reactions.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

2-chloroacetamide CAS No.: 79-07-2 EC No.: 201-174-2
LD₅₀ oral: 138 mg/kg (Ratte)
2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3
LD₅₀ oral: 175 mg/kg (Ratte) OECD 425
LD₅₀ dermal: 242 mg/kg (Ratte) OECD 402
LC₅₀ Acute inhalation toxicity (dust/mist): 0.11 mg/L 4 h (Ratte) OECD Prüfrichtlinie 403

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
DIAGNOSTIK

Page 6/9

recomLine , recomWell CONJ IgG/IgM/ IgA

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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

2-chloroacetamide CAS No.: 79-07-2 EC No.: 201-174-2

LC₅₀: 19.8 mg/L 4 d (fish, Carassius auratus (goldfish))

EC₅₀: 14 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

LC₅₀: 4.77 mg/L 4 d (fish, Oncorhynchus mykiss (Regenbogenforelle)) OECD 203

EC₅₀: 2.33 mg/L 2 d (crustaceans, Daphnia magna (Großer Wasserfloh)) OECD 202

EC₅₀: 0.998 mg/L 2 d (crustaceans, Krebstiere) OECD 202

NOEC: 0.9 mg/L 2 d (crustaceans, Daphnia magna (Großer Wasserfloh))) OECD 202

NOEC: 0.047 mg/L 3 d (Algae/water plant, Alge) OECD 201

ErC₅₀: 0.289 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (Grünalge)) OECD 201

NOEC: 2.38 mg/L (fish, Fisch) OECD 210

NOEC: 0.0442 mg/L 21 d (crustaceans, Daphnia magna) OECD-Prüfrichtlinie 211

Aquatic toxicity:

No data available

Sediment toxicity:

No data available

Terrestrial toxicity:

No data available

12.2. Persistence and degradability

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

Biodegradation: Poorly biodegradable.

12.3. Bioaccumulative potential

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

Log K_{OW}: -0.44

Partition coefficient: n-octanol/water:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

2-chloroacetamide CAS No.: 79-07-2 EC No.: 201-174-2

Results of PBT and vPvB assessment: —

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
DIAGNOSTIK

Page 7/9

recomLine , recomWell CONJ IgG/IgM/ IgA

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recycle according to official regulations.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions according to the Act on the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG).

Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
DIAGNOSTIK

Page 8/9

recomLine , recomWell CONJ IgG/IgM/ IgA

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
PROC	Process Category
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H361f	Suspected of damaging fertility.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 9/9

recomLine , recomWell CONJ IgG/IgM/ IgA

Hazard statements

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024
Print date: 3 Dec 2024
Version: 7



Page 1/7

recomLine DILUBUF

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

1.1. Product identifier

Trade name/designation:

recomLine DILUBUF

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

Use of the substance/mixture:

Für die Forschung und weitere Verarbeitung.
Nur für gewerbliche Anwender

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH
Anna Sigmund Strasse 10
82061 Neuried
Deutschland
Telephone: 089-54801119
E-mail: hendlmeier@mikrogen.de
Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard statements for health hazards	
H317	May cause an allergic skin reaction.

Supplemental hazard information: none

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 2/7

recomLine DILUBUF

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
------	---

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
-------------	--

P321	Specific treatment (see ... on this label).
------	---

P362 + P364	Take off contaminated clothing and wash it before reuse.
-------------	--

Special rules for supplemental label elements for certain mixtures:

2,9 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Allergic reactions

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:

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 3/7

recomLine DILUBUF

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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 containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special measures are necessary.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 4/7

recomLine DILUBUF

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Colour: colourless

Odour: odourless

flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7 - 8	20 °C	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Decomposition temperature	No data available		
Flash point	not applicable		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	No data available		
Relative density	No data available		
Bulk density	No data available		
Water solubility	No data available		
Partition coefficient: n-octanol/water	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

No known hazardous reactions.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No further relevant information available.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 5/7

recomLine DILUBUF

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK

Page 6/7

recomLine DILUBUF

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recycle according to official regulations.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions according to the Act on the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG).

Water hazard class

WGK:

3 - highly hazardous to water

15.2. Chemical Safety Assessment

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7



Page 7/7

recomLine DILUBUF

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

- ACGIH American Conference of Governmental Industrial Hygienists
- ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS Chemical Abstracts Service
- CLP Classification, Labelling and Packaging
- DIN German Institute for Standardization / German Industrial Standard
- DNEL derived no-effect level
- EC₅₀ Effective Concentration 50%
- EN European Standard
- ES Exposure scenario
- ICAO International Civil Aviation Organization
- IMDG International Maritime Dangerous Goods
- IMO International Maritime Organization
- ISO International Standards Organisation
- LC₅₀ Lethal (fatal) Concentration 50%
- LD₅₀ Lethal (fatal) Dose 50%
- MAK Maximum concentration in the workplace air (CH)
- NFPA National Fire Protection Association
- NIOSH National Institute for Occupational Safety & Health
- NOEC No Observed Effect Concentration
- OECD Organisation for Economic Cooperation and Development
- OSHA Occupational Safety & Health Administration
- PBT persistent and bioaccumulative and toxic
- PNEC Predicted No Effect Concentration
- REACH Registration, Evaluation and Authorization of Chemicals
- RID Dangerous goods regulations for transport by rail
- SCL Specific concentration limit
- TRGS Technische Regeln für Gefahrstoffe
- UN United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

No data available

16.6. Training advice

No data available

16.7. Additional information

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 1/6

recomLine MILKPOW

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

1.1. Product identifier

Trade name/designation:

recomLine MILKPOW

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

Reagents and laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH

Anna Sigmund Strasse 10

82061 Neuried

Deutschland

Telephone: 089-54801119

E-mail: hendlmeier@mikrogen.de

Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information: none

Precautionary statements: none

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 2/6

recomLine MILKPOW

Following ingestion:

Rinse mouth thoroughly with water.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam Dry extinguishing powder Carbon dioxide (CO2) Water spray jet

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid dust formation. Use personal protection equipment.

6.1.2. For emergency responders

No data available

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 containment:

Suitable material for taking up:

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe dust.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
DIAGNOSTIK

Page 3/6

recomLine MILKPOW

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Suitable gloves type . EN ISO 374

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Powder

Colour: not determined

Odour: not determined

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	No data available	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Decomposition temperature	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	No data available	
Relative density	No data available	
Bulk density	No data available	
Water solubility	No data available	
Partition coefficient: n-octanol/water	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

particle characteristics:

No data available

9.2. Other information

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6



Page 4/6

recomLine MILKPOW

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 5/6

recomLine MILKPOW

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions according to the Act on the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG).

Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
EN	European Standard
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
NFPA	National Fire Protection Association
PBT	persistent and bioaccumulative and toxic
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 6

MIKROGEN
D I A G N O S T I K

Page 6/6

recomLine MILKPOW

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

No data available

16.6. Training advice

No data available

16.7. Additional information

No data available

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 1/9

recomLine SUBS TMB

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

1.1. Product identifier

Trade name/designation:

recomLine SUBS TMB

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH

Anna Sigmund Strasse 10

82061 Neuried

Deutschland

Telephone: 089-54801119

E-mail: hendlmeier@mikrogen.de

Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information	
EUH210	Safety data sheet available on request.

Precautionary statements: none

2.3. Other hazards

Adverse physicochemical effects:

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

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK


Page 2/9

recomLine SUBS TMB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 872-50-4 EC No.: 212-828-1 Index No.: 606-021-00-7	1-methyl-2-pyrrolidone <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Eye Irrit. 2 (H319), Repr. 1B (H360D**), STOT SE 3 (H335), Skin Irrit. 2 (H315)  Danger Specific concentration limit (SCL) STOT SE 3; H335: C ≥ 10% Acute Toxicity Estimate ATE (oral) 3,600 mg/kg ATE (dermal) 8,000 mg/kg	0.1 - ≤ 0.3 %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice.

Following inhalation:

Provide fresh air.

In case of skin contact:

Wash with plenty of water.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Rinse mouth thoroughly with water. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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:

Foam Dry extinguishing powder Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x) Carbon monoxide Carbon dioxide (CO₂)

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 3/9

recomLine SUBS TMB

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up

For containment:

Take up mechanically.

For cleaning up:

Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Observe instructions for use.

Fire prevent measures:

No special fire protection measures are necessary.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

Immediately remove any contaminated clothing, shoes or stockings.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed.

Protect from sunlight.

Keep/Store only in original container.

Never return spills in original containers for re-use.

Hints on storage assembly:

Keep away from: Food and feedingstuffs

Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

Restricted to professional users.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK

Page 4/9

recomLine SUBS TMB

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
BOELV (EU) from 5 Apr 2022	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	① 10 ppm (40 mg/m ³) ② 20 ppm (80 mg/m ³) ⑤ (may be absorbed through the skin)
TRGS 900 (DE) from 15 Jan 2024	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	① 10 ppm (40 mg/m ³) ② 20 ppm (80 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) EU, DFG, AGS, H, Y, 11, 19, 32
TRGS 900 (DE) from 7 Jun 2018	Citronensäure CAS No.: 77-92-9 EC No.: 201-069-1	① 2 mg/m ³ ② 4 mg/m ³ ⑤ (einatembare Fraktion) DFG, Y
TRGS 900 (DE)	PEG 12 CAS No.: 25322-68-3 EC No.: 500-038-2	① 200 mg/m ³ ② 400 mg/m ³ ⑤ (einatembare Fraktion, Gewichtsgemittelte Molmasse (Mw) 200-600) DFG, Y
DFG (DE) from 1 Jul 2019	PEG 12 CAS No.: 25322-68-3 EC No.: 500-038-2	① 250 mg/m ³ ② 500 mg/m ³ ⑤ (einatembare Fraktion)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
TRGS 903 (DE) from 1 Nov 2012	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	150 mg/L	① 5-Hydroxy-N-methyl-2-pyrrolidon ② Urin ③ Expositionsende bzw. Schichtende
BLV (EU) from 1 Jun 2014	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	20 mg/g creatinine	① N-Methyl-2-pyrrolidone ② urine ③ end of exposure or end of shift
BLV (EU) from 1 Jun 2014	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	70 mg/g creatinine	① 5-hydroxy-N-methyl-2-pyrrolidone ② urine ③ end of exposure or end of shift

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK

Page 5/9

recomLine SUBS TMB

Skin protection:

Suitable material: NBR (Nitrile rubber) When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material $\geq 0,1\text{mm}$

Respiratory protection:

Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

No special environmental measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Colour: farblos

Odour: geruchlos

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	3.9 – 5.3	① Experimental data
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	100 °C	
Flash point	120 °C	
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	1.0052 g/cm ³	
Bulk density	not applicable	
Water solubility	No data available	
Partition coefficient: n-octanol/water	not applicable	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Oxidizing liquids:

The product is not: Oxidising

Additional information:

No known hazardous decomposition products.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK

Page 6/9

recomLine SUBS TMB

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Protect from sunlight.

10.5. Incompatible materials

metals

Oxidizing agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1
LD₅₀ oral: 3,600 mg/kg (Ratte)
LD₅₀ dermal: 8,000 mg/kg (Kaninchen)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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.

11.2. Information on other hazards

Endocrine disrupting properties:

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

Other information:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK

Page 7/9

recomLine SUBS TMB

SECTION 12: Ecological information

12.1. Toxicity

1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1

LC₅₀: 832 mg/L 4 d (fish, *Lepomis macrochirus*)

EC₅₀: 4,897 mg/L 2 d (crustaceans, *Daphnia magna*)

ErC₅₀: >500 mg/L 3 d (Algae/water plant, *Scenedesmus subspicatus*)

12.2. Persistence and degradability

Biodegradation:

The single components are biodegradable.

12.3. Bioaccumulative potential

1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1

Log K_{ow}: -0.54

Bioconcentration factor (BCF):

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water:

not applicable

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

Waste code packaging

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

13.2. Additional information

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

Inland waterway craft
(ADN)

Sea transport (IMDG)

Air transport (ICAO-TI /
IATA-DGR)

14.1. UN number or ID number

No dangerous good in
sense of these transport
regulations.

No dangerous good in
sense of these transport
regulations.

No dangerous good in
sense of these transport
regulations.

No dangerous good in
sense of these transport
regulations.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
DIAGNOSTIK

Page 8/9

recomLine SUBS TMB

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Dieser Stoff ist als besonders besorgniserregend (SVHC) in der Kandidatenliste gemäß REACH, Artikel 59 gelistet. : N-Methyl-2-pyrrolidon; 1-Methyl-2-pyrrolidon

Other regulations (EU):

This product is not assigned to a hazard category.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 0.102 weight-%

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 7

MIKROGEN
D I A G N O S T I K

Page 9/9

recomLine SUBS TMB

ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
SVHC	substances of very high concern
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.

16.6. Training advice

No data available

16.7. Additional information

Please refer to our internet website for more information.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024
Print date: 3 Dec 2024
Version: 9



Page 1/8

recomLine WASHBUF A 10x

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

1.1. Product identifier

Trade name/designation:

recomLine WASHBUF A 10x

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mikrogen GmbH

Anna Sigmund Strasse 10

82061 Neuried

Deutschland

Telephone: 089-54801119

E-mail: hendlmeier@mikrogen.de

Website: www.mikrogen.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

2-Methyl-2H-isothiazol-3

Hazard statements for health hazards	
H317	May cause an allergic skin reaction.

Supplemental hazard information: none

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
DIAGNOSTIK

Page 2/8

recomLine WASHBUF A 10x

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
------	---

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
-------------	--

P321	Specific treatment (see ... on this label).
------	---

P362 + P364	Take off contaminated clothing and wash it before reuse.
-------------	--

2.3. Other hazards

No data available




SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

This mixture does not contain any substances presenting a health or environmental hazard within the means of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 26172-54-3 EC No.: 247-499-3	2-Methyl-2H-isothiazol-3 Acute Tox. 2 (H330), Acute Tox. 3 (H301, H311), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Corr. 1 (H314), Skin Sens. 1 (H317)    Danger M-factor (acute): 1 M-factor (chronic): 1 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.0015% Acute Toxicity Estimate ATE (oral) 175 mg/kg ATE (dermal) 242 mg/kg ATE (inhalation, dust/mist) 0.11 mg/L	0 - ≤ 0.1 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Allergic reactions

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
D I A G N O S T I K

Page 3/8

recomLine WASHBUF A 10x

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:

Water

Foam

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂)

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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 containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
DIAGNOSTIK

Page 4/8

recomLine WASHBUF A 10x

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7 of the safety data sheet.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Colour: pink

Odour: odourless

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	= 5.9 - = 6.1	
Melting point	No data available	
Freezing point	not applicable	
Initial boiling point and boiling range	No data available	
Decomposition temperature	not applicable	
Flash point	No data available	
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	No data available	
Relative density	No data available	
Bulk density	No data available	
Water solubility	No data available	
Partition coefficient: n-octanol/water	No data available	
Dynamic viscosity	No data available	

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
DIAGNOSTIK

Page 5/8

recomLine WASHBUF A 10x

Parameter	Value	① Method ② Remark
Kinematic viscosity	No data available	

9.2. Other information

not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3
LD₅₀ oral: 175 mg/kg (Ratte) OECD 425
LD₅₀ dermal: 242 mg/kg (Ratte) OECD 402
LC₅₀ Acute inhalation toxicity (dust/mist): 0.11 mg/L 4 h (Ratte) OECD Prüfrichtlinie 403

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
DIAGNOSTIK

Page 6/8

recomLine WASHBUF A 10x

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

LC₅₀: 4.77 mg/L 4 d (fish, *Oncorhynchus mykiss* (Regenbogenforelle)) OECD 203

EC₅₀: 2.33 mg/L 2 d (crustaceans, *Daphnia magna* (Großer Wasserfloh)) OECD 202

EC₅₀: 0.998 mg/L 2 d (crustaceans, Krebstiere) OECD 202

NOEC: 0.9 mg/L 2 d (crustaceans, *Daphnia magna* (Großer Wasserfloh)) OECD 202

NOEC: 0.047 mg/L 3 d (Algae/water plant, Alge) OECD 201

ErC₅₀: 0.289 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (Grünalge)) OECD 201

NOEC: 2.38 mg/L (fish, Fisch) OECD 210

NOEC: 0.0442 mg/L 21 d (crustaceans, *Daphnia magna*) OECD-Prüfrichtlinie 211

12.2. Persistence and degradability

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

Biodegradation: Poorly biodegradable.

12.3. Bioaccumulative potential

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

Log K_{ow}: -0.44

Partition coefficient: n-octanol/water:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

2-Methyl-2H-isothiazol-3 CAS No.: 26172-54-3 EC No.: 247-499-3

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recycle according to official regulations.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

Inland waterway craft (ADN)

Sea transport (IMDG)

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
DIAGNOSTIK

Page 7/8

recomLine WASHBUF A 10x

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions according to the Act on the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG).

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Observe employment restrictions according to the Law for the protection of working youth (Protection of Young Persons Act - JArbSchG).

Water hazard class

WGK:

3 - highly hazardous to water

15.2. Chemical Safety Assessment

No information available, because for the substance no chemical safety report is required.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods

SAFETY DATA SHEET

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

Revision date: 3 Dec 2024

Print date: 3 Dec 2024

Version: 9

MIKROGEN
DIAGNOSTIK

Page 8/8

recomLine WASHBUF A 10x

IMO	International Maritime Organization
ISO	International Standards Organisation
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available