

## NZY Total RNA isolation kit Article number: 55008

### Safety Data Sheets of the following Kit Components:

55008-1	MB134-Buffer NR
55008-2	MB134-Buffer NI
55008-3	MB134-Buffer NWR1
55008-6	MB134-DNase I (lyophilized)

### Kit components,

# according to CLP Regulation (EC) No. 1272/2008 not classified as hazardous (Safety Data sheet is not required.):

55008-4	MB134-Buffer NWR2 (concentrate)
55008-5	MB134-RNase-free water
55008-7	MB134-Digestion buffer
55008-8	MB134-NZYSpin Homogenization Columns
55008-9	MB134-NZYSpin Binding Columns
55008-10	MB134-Collection tubes (2 mL)
55008-11	MB134-Collection tubes (1.5 mL)

### Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31



### Safety data sheet

Printing date 14.03.20	025	Version number 1	Revision: 14.03.2025
Frade name: MB134	- Buffer NR		
			(Contd. of page 1
· Precautionary sta			
P264		ghly after handling.	
P280	Wear protection.	ctive gloves/protective clothing/eye pro	otection/face protection/hearing
P301+P312	IF SWALLO	WED: Call a POISON CENTER/doctor if y	you feel unwell.
P302+P352	IF ON SKIN	: Wash with plenty of soap and water.	
P304+P340		D: Remove person to fresh air and keep con	mfortable for breathing.
P305+P351+P338	8 IF IN EYES:	Rinse cautiously with water for several reasy to do. Continue rinsing.	
· Additional inform		2 0	
EUH032 Contact with acids liberates very toxic gas.			
EUH071 Corrosiv			
• Labelling of packages where the contents do not exceed 125 ml • Hazard pictograms GHS05, GHS07			
· Hazard-determini	ing componen	ts of labelling:	
guanidinium thioc	yanate		
· Hazard statement	s		
H314 Causes seve	ere skin burns o	and eye damage.	
· Precautionary sta	tements		
P280	Wear protection.	ctive gloves/protective clothing/eye pro	otection/face protection/hearing
P302+P352	IF ON SKIN	: Wash with plenty of soap and water.	
P304+P340		D: Remove person to fresh air and keep con	mfortable for breathing.
P305+P351+P338	8 IF IN EYES:	Rinse cautiously with water for several reasy to do. Continue rinsing.	
· 2.3 Other hazards			
· Results of PBT an		sment:	
	sment not ava		
• <b>PBT</b> : PBT - Asses	Shiene hor area		

### **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· Description: aqueous solution

<ul> <li>Dangerous compone</li> </ul>	nis:	
CAS: 593-84-0	guanidinium thiocyanate	40-80%
EINECS: 209-812-1	♦ Skin Corr. 1C, H314;	

· Additional information

The product does not contain any other substances that have to be declared according to UK REACH (Regulation (EC) No 1907/2006).

For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

· After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

• After skin contact: Wash off immediately with plenty of water. Consult a doctor if symptoms occur.

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

### Trade name: MB134 - Buffer NR

• After eye contact:

Rinse opened eye for several minutes with running water. Remove contact lenses if possible and continue rinsing. Consult an ophthalmologist immediately.

- After swallowing: Rinse out mouth. Call a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available. · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · 5.2 Special hazards arising from the substance or mixture:
- Formation of hazardous vapours and gases possible during heating or in case of fire. In case of fire, the following can be formed, but not limited to:
- Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Particular danger of slipping on leaked/spilled product. Ensure adequate ventilation Wear respiratory protection.
- · 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

• Information about protection against explosions and fires: The product is not flammable

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility:
- Store away from oxidising agents.
- Do not store together with acids.

• Further information about storage conditions: Store containers tightly closed and dry.

(Contd. on page 4)

(Contd. of page 2)

GB

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

(Contd. of page 3)

Trade name: MB134 - Buffer NR

• 7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Store protective clothing separately. Immediately remove all soiled and contaminated clothing Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- **Breathing equipment:** Short term filter device: Filter P2.
- Hand protection:
- Protective gloves.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR

- · Eye/face protection: Tightly sealed goggles.
- **Body protection:** Protective work clothing.

9.1 Information on basic physical and c	hemical properties	
General Information:		
Physical state:	Fluid	
Colour:	Colourless	
Odour:	Odourless	
Melting point/freezing point:	No information available	
Boiling point or initial boiling point and	boiling	
range:	No information available	
Flammability:	The product is not flammable	

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NR

	(Contd. of page
Lower and upper explosion limit:	
Lower:	not applicable
Upper:	not applicable
Flash point:	Not applicable
Decomposition temperature:	No information available
pH at 20 °C:	6.5-7.5
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	Not determined.
Solubility:	
Water:	Fully miscible
Partition coefficient n-octanol/water (log value):	No information available
Vapour pressure:	No information available
Density and/or relative density:	v
Density at 20 °C:	$1.13 \text{ g/cm}^3$
Relative density:	No information available
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health and	1
environment, and on safety:	
Explosive properties:	Product does not present an explosion hazard.

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity: No further relevant information available.

· 10.2 Chemical stability:

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No further relevant information available.

• 10.4 Conditions to avoid: No further relevant information available.

- 10.5 Incompatible materials: Avoid contact with strong oxidising agents, strong acids, strong alkalis.
- 10.6 Hazardous 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:
- · Acute toxicity: Harmful if swallowed, in contact with skin or if inhaled.

· LD/LC50 values that are relevant for classification:

593-84-0 guanidinium thiocyanate

Oral LD50 593 mg/kg (rat)

- · Skin corrosion/irritation: Causes severe skin burns and eye damage.
- 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: No relevant information available

GR

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NR

(Contd. of page 5)

### **SECTION 12: Ecological information**

- · 12.1 Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment:
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- · Additional ecological information:
- · General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Dispose of in accordance with official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14.1 UN number or ID number ADR, IMDG, IATA	UN1760
· 14.2 UN proper shipping name · ADR	1760 CORROSIVE LIQUID, N.O.S. (guanidinium
IMDG, IATA	thiocyanate) CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate)
14.3 Transport hazard class(es)	
Class	8 Corrosiva substances
	8 Corrosive substances. 8
Label: 14.4 Packing group	
Label: 14.4 Packing group ADR, IMDG, IATA	8
Label: 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards	8 <i>III</i>
<ul> <li>Class:</li> <li>Label:</li> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> <li>14.5 Environmental hazards</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	8 III Not applicable.

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NR

(Contd. of page
SW2 Clear of living quarters.
<b>g to IMO</b> Not applicable.
5L
Code: El
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
3
E
5L
Code: El
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
UN 1760 CORROSIVE LIQUID, N.O.S (GUANIDINIUM THIOCYANATE), 8, III

### **SECTION 15: Regulatory information**

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

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

• Named dangerous substances - ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

(Contd. on page 8)

GB

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NR

(Contd. of page 7)

 $\cdot$  Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

• Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

EUH071 Corrosive to the respiratory tract.

· Department issuing SDS: Product Safety Department

· Contact: +49 6221 13840-35

• Date of previous version: 14.03.2025

• Abbreviations and acronyms:

PBT: persistent, bioaccumulative, toxic substance (UK REACH)

vPvB: very persistent, very bioaccumulative substance (UK REACH)

UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

GB CLP: Regulation on classification, labelling and packaging of substances and mixtures

*bw: body weight* 

UFI: Unique Formula Identifier ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB –

### Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31



rinting date 14.03.20	25 Version number 1	Revision: 14.03.2025
rade name: MB134 -	Buffer NI	
		(Contd. of page 1)
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contanuater [or shower].	
P304+P340	IF INHALED: Remove person to fresh air and keep con	<i>ifortable for breathing.</i>
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several m present and easy to do. Continue rinsing.	
· Additional inform		
	vith acids liberates very toxic gas.	
	e to the respiratory tract.	
	ges where the contents do not exceed 125 ml	
· Hazard pictogram		
· Signal word Dang	2r	
. Hazard-dotormini	g components of labelling:	
guanidinium thiocy		
· Hazard statements		
-	e skin burns and eye damage.	
Precautionary stat		
P280	Wear protective gloves/protective clothing/eye pro protection.	tection/face protection/hearing
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomitin	ng.
	IF ON SKIN (or hair): Take off immediately all contain	0
	water [or shower].	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several m	vinutes. Remove contact lenses. if
	present and easy to do. Continue rinsing.	
· 2.3 Other hazards		
· Results of PBT an	d vPvB assessment:	
· PBT: Not applicat		
"D"D. Not applied		

· **vPvB:** Not applicable.

· Determination of endocrine-disrupting properties No further relevant information available.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· Description: aqueous solution

• Dangerous components:		٠j	Dangerous	components:	
-------------------------	--	----	-----------	-------------	--

Dungerous compone		
CAS: 64-17-5	ethanol	5-30%
EINECS: 200-578-6	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319	
	guanidinium thiocyanate	2.5-15%
EINECS: 209-812-1	♦ Skin Corr. 1C, H314;	

· Additional information

The product does not contain any other substances that have to be declared according to UK REACH (Regulation (EC) No 1907/2006).

For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. • After eye contact:

Rinse opened eye for several minutes with running water. Remove contact lenses if possible and continue rinsing. Consult an ophthalmologist immediately.

• After swallowing: Rinse out mouth. Call a doctor immediately.

(Contd. on page 3)

### Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NI

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **SECTION 5: Firefighting measures**

### · 5.1 Extinguishing media

- Suitable extinguishing agents:
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:
- Formation of hazardous vapours and gases possible during heating or in case of fire. In case of fire, the following can be formed, but not limited to: Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective clothing.
  Ensure adequate ventilation
  Particular danger of slipping on leaked/spilled product.
  Wear respiratory protection.
   6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility:
- Do not store together with oxidizing materials. Do not store together with acids.
- Further information about storage conditions: Store containers tightly closed and dry.
- 7.3 Specific end use(s): No further relevant information available.

(Contd. on page 4)

(Contd. of page 2)

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NI

(Contd. of page 3)

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:
- 64-17-5 ethanol (15-30%)
- WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm
- Additional information: The lists that were valid during the creation were used as basis.

#### · 8.2 Exposure controls

- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- **Breathing equipment:** Short term filter device:
- Filter P2.
- *Hand protection: Protective gloves.*
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves:
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- · Penetration time of glove material:
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Nitrile rubber, NBR
- Natural rubber, NR
- Eye/face protection: Tightly sealed goggles.
- · Body protection: Protective work clothing.

9.1 Information on basic physical and cl General Information:	hemical properties	
Physical state:	Fluid	
Colour:	Colourless	
Odour:	Characteristic	
Melting point/freezing point:	No information available	
Boiling point or initial boiling point and	lboiling	
range:	95 °C	

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NI

	(Contd. of page 4
· Flammability:	Flammable liquid and vapour according to GB CLF Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable.
· Lower and upper explosion limit:	Flammable.
· Lower:	No information available
· Upper:	No information available
· Flash point:	55 °C
• Auto-ignition temperature:	423 °C
Decomposition temperature:	No information available
• pH at 20 °C:	6.8-7.2
Viscosity:	0.0-7.2
Kinematic viscosity:	Not determined.
Dynamic viscosity:	Not determined.
Solubility:	Not determined.
· Solubility: · Water:	Fully miscible
Partition coefficient n-octanol/water (log value):	No information available
· Vapour pressure at 20 °C:	28 hPa
Vapour pressure at 20 °C:	20 nFu 141 hPa
	141 NF U
Density and/or relative density: Density at 20 °C:	$1.01 a/am^3$
Relative density:	1.01 g/cm <sup>3</sup>
• 9.2 Other information	No information available
Appearance:	
· Appearance. · Form:	Liquid
Important information on protection of health and environment, and on safety:	
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined.

### **SECTION 10: Stability and reactivity**

• 10.1 Reactivity: No further relevant information available.

· 10.2 Chemical stability:

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions: No further relevant information available.
- 10.4 Conditions to avoid: Avoid high temperatures, flames and sparks Exposure to light
   10.5 Incompatible materials:
- Avoid contact with:
- Oxidising agents, acids, bases

• 10.6 Hazardous 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:

• Acute toxicity: Based on available data, the classification criteria are not met.

• Skin corrosion/irritation: Causes severe skin burns and eye damage.

• 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.

 $\cdot$  **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.

(Contd. on page 6)

<sup>-</sup> GB

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

(Contd. of page 5)

Trade name: MB134 - Buffer NI

• 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: No relevant information available

### **SECTION 12: Ecological information**

· 12.1 Toxicity:

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment:
- · **PBT**: PBT assessment not available.
- · **vPvB**: vPvB assessment not available.

• 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects:
- · Additional ecological information:
- · General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Dispose of in accordance with official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2924
· 14.2 UN proper shipping name · ADR	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S (ETHANOL (ETHYL ALCOHOL), guanidiniun thiocyanate)
· IMDG	FLAMMABLE LIQUID, CORROSIVE, N.O.S (ETHANOL (ETHYL ALCOHOL), guanidinium thiocyanate)
·IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S (ETHANOL, guanidinium thiocyanate)
· 14.3 Transport hazard class(es)	
· ADR	
· Class:	3 Flammable liquids.

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NI

	(Contd. of page
· Label:	3+8
·IMDG	
· Class	3 Flammable liquids.
· Label	3/8
·IATA	
· Class · Label	3 Flammable liquids. 3 (8)
	5 (0)
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable liquids.
• Hazard identification number (Kemler code):	38
· EMS Number:	F-E,S-C
• Stowage Category • Stowage Code	A SW2 Clear of living quarters.
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	Not applicable.
· Transport/Additional information:	11
· ADR	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
Transforment and a second	Maximum net quantity per outer packaging: 1000 ml 3
• Transport category • Tunnel restriction code	5 D/E
· IMDG	
· IMDG · Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O
-	(ETHANOL (ETHYL ALCOHOL), GUANIDINIUL
	THIOCYANATE), 3 (8), III

### SECTION 15: Regulatory information

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

· Regulated explosives precursors

None of the ingredients is listed.

(Contd. on page 8)

GB

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NI

(Contd. of page 7)

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

· Regulated poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 $\cdot$  Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

• Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

EUH071 Corrosive to the respiratory tract.

· Department issuing SDS: Product Safety Department

• *Contact:* +49 6221 13840-35

• Abbreviations and acronyms: PBT: persistent, bioaccumulative, toxic substance (UK REACH) vPvB: very persistent, very bioaccumulative substance (UK REACH) UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals GB CLP: Regulation on classification, labelling and packaging of substances and mixtures

(Contd. on page 9)

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

### Trade name: MB134 - Buffer NI

(Contd. of page 8)
bw: body weight
UFI: Unique Formula Identifier
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

### Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31



Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

### Trade name: MB134 - Buffer NWR1

	(Contd. of page 1)
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
· Labelling of pa	ckages where the contents do not exceed 125 ml
· Hazard pictogr	ams GHS02, GHS07
· Signal word We	arning
· Hazard stateme	ents Void
· Precautionary	statements
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
D202 + D252	protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
· 2.3 Other haza	rds
· Results of PBT	and vPvB assessment:

### • **PBT:** PBT - Assessment not available.

- **vPvB**: vPvB Assessment not available.
- Determination of endocrine-disrupting properties No further relevant information available.

#### SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: aqueous solution

· Dangerous compone	nts:	
CAS: 50-01-1	guanadine hydrochloride	20-40%
EINECS: 200-002-3	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 64-17-5	ethanol	20-40%
EINECS: 200-578-6	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319	

· Additional information

The product does not contain any other substances that have to be declared according to UK REACH (Regulation (EC) No 1907/2006).

For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. *After eye contact:*

Rinse opened eye for several minutes with running water. Remove contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- After swallowing: Rinse out mouth and consult a doctor.
- **4.2** *Most important symptoms and effects, both acute and delayed No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

GB

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NWR1

- (Contd. of page 2) · 5.2 Special hazards arising from the substance or mixture: Formation of hazardous vapours and gases possible during heating or in case of fire. *In case of fire, the following can be formed, but not limited to:* Carbon monoxide and carbon dioxide · 5.3 Advice for firefighters · Protective equipment: Wear self-contained breathing apparatus. · Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. **SECTION 6:** Accidental release measures · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Particular danger of slipping on leaked/spilled product. Keep away from ignition sources • 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). · 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. **SECTION 7: Handling and storage** · 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. • Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. · 7.2 Conditions for safe storage, including any incompatibilities · Storage • Requirements to be met by storerooms and receptacles: Store only in the original receptacle. • Information about storage in one common storage facility: Do not store together with oxidizing materials. • Further information about storage conditions: Store containers tightly closed and dry. • 7.3 Specific end use(s): No further relevant information available. **SECTION 8: Exposure controls/personal protection** · 8.1 Control parameters · Components with limit values that require monitoring at the workplace: 64-17-5 ethanol (20-40%) WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm · Additional information: The lists that were valid during the creation were used as basis. · 8.2 Exposure controls • Appropriate engineering controls: No further data; see section 7.
  - · Individual protection measures, such as personal protective equipment:
  - General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing

(Contd. on page 4)

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

### Trade name: MB134 - Buffer NWR1

	(Contd. of page 3
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the end of	f work.
Breathing equipment:	
Short term filter device:	
Filter P2.	
Hand protection:	
Protective gloves.	
-	the glove material can be given for the product/ the preparation
the chemical mixture.	i den stiene of the most traction times and a difference of difference of the
	ideration of the penetration times, rates of diffusion and th
degradation Material of gloves:	
	not only depend on the material, but also on further marks of
quality and varies from manufacturer to ma	
	not only depend on the material, but also on further marks of
	o manufacturer. As the product is a preparation of sever
	terial can not be calculated in advance and has therefore to b
checked prior to the application.	ienai can noi be calculatea in davance ana nas increjore io b
Penetration time of glove material:	
	nd out by the manufacturer of the protective gloves and has to b
observed.	
	om of 15 minutes gloves made of the following materials ar
suitable:	
Natural rubber, NR	
Nitrile rubber, NBR	
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing.	operties
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr	
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chem	
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chem General Information:	
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chem General Information: Physical state:	mical properties
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical General Information: Physical state: Colour:	mical properties Fluid
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical General Information: Physical state: Colour: Odour:	mical properties Fluid Colourless Characteristic
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chen General Information: Physical state: Colour: Odour: Melting point/freezing point:	mical properties Fluid Colourless Characteristic No information available
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chem General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and ba	mical properties Fluid Colourless Characteristic No information available
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and b	mical properties Fluid Colourless Characteristic No information available oiling 87 °C
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and cher General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and bo range:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and cher General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and bo range:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CL1
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chen General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and be range: Flammability:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable.
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical physical and chemical physical and chemical physical and phys	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical physical and	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and cher General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and bo range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and cher General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and bo range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pro- 9.1 Information on basic physical and chemical pro- 9.1 Information pro-	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pro- 9.1 Information on basic physical and chemical General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boil range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature: Decomposition temperature: pH at 20 °C:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling point or initial boiling point and boiling point and boiling point or initial boiling point and boiling point and boiling point and boiling point or initial boiling point and boiling point and boiling point or initial boiling point and boiling p	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLI Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical pr 9.1 Information to initial boiling point and basic range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature: pH at 20 °C: Viscosity: Kinematic viscosity:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLH Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5 Not determined.
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chen General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and be range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature: pH at 20 °C: Viscosity: Kinematic viscosity: Dynamic viscosity:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLH Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical pr 1000000000000000000000000000000000000	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLF Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5 Not determined. Not determined.
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical pr 9.1 Information on basic physical and chemical pr General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and bar range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature: pH at 20 °C: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility: Water:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLF Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5 Not determined. Not determined. Not determined. Fully miscible
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical pr 9.1 Information on basic physical and chemical pr General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and basic range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature: pH at 20 °C: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility: Water: Partition coefficient n-octanol/water (log v	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLF Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5 Not determined. Not determined. Fully miscible palue): No information available
Nitrile rubber, NBR Eye/face protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical pr 9.1 Information on basic physical and chemical pr 9.1 Information on basic physical and chemical pr General Information: Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and bar range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Auto-ignition temperature: pH at 20 °C: Viscosity: Kinematic viscosity: Dynamic viscosity: Solubility: Water:	mical properties Fluid Colourless Characteristic No information available oiling 87 °C Flammable liquid and vapour according to GB CLF Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226 Flammable. No information available No information available 28 °C 423 °C No information available 6.5-7.5 Not determined. Not determined. Fully miscible

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

### Trade name: MB134 - Buffer NWR1

	(Contd. of page 4
· Density and/or relative density:	
· Density at 20 •C:	$1.03 \ g/cm^3$
· Relative density:	No information available
• 9.2 Other information	
· Appearance:	
· Form:	Liquid
Important information on protection of environment, and on safety:	f health and
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
	Not determined.

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No further relevant information available.
- · 10.4 Conditions to avoid:
- Avoid high temperatures, flames and sparks Exposure to light
- 10.5 Incompatible materials:
- Avoid contact with:
- Oxidising agents, acids, bases
- 10.6 Hazardous 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:
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation: Causes skin irritation.
- · Serious eye damage/irritation: Causes serious eye irritation.
- 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: No relevant information available

### **SECTION 12: Ecological information**

· 12.1 Toxicity:

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- · 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:
- · PBT: PBT assessment not available.
- · **vPvB**: vPvB assessment not available.

• 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.

(Contd. on page 6)

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

(Contd. of page 5)

Trade name: MB134 - Buffer NWR1

- · 12.7 Other adverse effects:
- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Dispose of in accordance with official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14.1 UN number or ID number ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S. (ETHANO (ETHYL ALCOHOL))
IMDG	(ETHIL ALCOHOL)) FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHY ALCOHOL))
IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class:	3 Flammable liquids.
Label:	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	A
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3

GB

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

Trade name: MB134 - Buffer NWR1

	(Contd. of page 6)
· Tunnel restriction code	D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL)), 3, III

### **SECTION 15: Regulatory information**

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

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

### · Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

 $\cdot$  Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 $\cdot$  Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

### Trade name: MB134 - Buffer NWR1

(Contd. of page 7)

	information is based on our present knowledge. However, this shall not constitute a guarantee for an fic product features and shall not establish a legally valid contractual relationship.
Relev	vant phrases
	5 Highly flammable liquid and vapour.
	2 Harmful if swallowed.
	5 Causes skin irritation.
H319	Causes serious eye irritation.
Dena	urtment issuing SDS: Product Safety Department
-	act: +49 6221 13840-35
00	eviations and acronyms:
	persistent, bioaccumulative, toxic substance (UK REACH)
	very persistent, very bioaccumulative substance (UK REACH)
	EACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
	P: Regulation on classification, labelling and packaging of substances and mixtures
	bdy weight
UFI: U	Unique Formula Identifier
ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
Interne	ational Carriage of Dangerous Goods by Road)
IMDG	: International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
	Globally Harmonised System of Classification and Labelling of Chemicals
	CS: European Inventory of Existing Commercial Chemical Substances
	CS: European List of Notified Chemical Substances
	Chemical Abstracts Service (division of the American Chemical Society)
	Persistent, Bioaccumulative and Toxic
	very Persistent and very Bioaccumulative
	Liq. 2: Flammable liquids – Category 2
	Liq. 3: Flammable liquids – Category 3
	Tox. 4: Acute toxicity – Category 4
	rrit. 2: Skin corrosion/irritation – Category 2
Eye Iri	rit. 2: Serious eye damage/eye irritation – Category 2

Printing date 11.07.2025

\*

\*

Version number 1

Revision: 11.07.2025

• 1.1 Produ	ect identifier				CEDI 74
	me: MB134-DNas	e I (lyophilized)			<b>SERVA</b>
· Article ni	umber: 55008-6				Serving sciencists
CAS Nun					
9003-98-9					
EC numb					
232-667-0					
1.2 Relev	ant identified uses	of the substance of	or mixture and use	s advised against	
	r relevant informa				~
Application	on of the substanc	e / the mixture: La	boratory chemical	ls 🖉	
1 3 Detai	ls of the supplier o	f the safety data si	heet		)
	turer/Supplier:	j ine sujery data si			
	lectrophoresis Gm	bH		· . Co	
Carl-Benz					
	Heidelberg			5	
	6221 13840-0		-10	05	
	6221 13840-10				
msds.info	@serva.de		$\sim$		
Informati	on donartmont.	ocurity Danartmon	t Phone: +49 6221	13840 34	
	gency telephone n		1 none. +49 0221	13040-34	
		tion in case of poi	soning		
		Mainz-Tel: +49 (0)			
	ing in German and		0131 19240		
(Counsen	ing in German and				
SECTIO	N 2: Hazards ide	entification			
· 2.1 Classi	ification of the sul	ostance or mixture Regulation (EC) N			
2.1 Classi	ification of the sul				
2.1 Classi Classifica	fication of the sub tion according to GHS08	Regulation (EC) N		reathing difficultie	s if inhaled.
2.1 Classi Classifica Resp. Sen 2.2 Label	fication of the sub ation according to GHS08 s. 1 H334 May ca elements	<b>Regulation (EC)</b> N use allergy or asth	No 1272/2008: ma symptoms or bi	reathing difficultie	s if inhaled.
2.1 Classi Classifica Classifica Resp. Sen 2.2 Label Labelling	fication of the sub tion according to GHS08 s. 1 H334 May ca elements according to Reg	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> .	No 1272/2008: ma symptoms or bi 272/2008:		s if inhaled.
2.1 Classi Classifica Classifica Resp. Sen 2.2 Label Labelling The subst	fication of the sub ttion according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> und labelled accord	No 1272/2008: ma symptoms or bi		s if inhaled.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substa Hazard pu	fication of the sub tion according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> und labelled accord	No 1272/2008: ma symptoms or bi 272/2008:		s if inhaled.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substa Hazard pu Signal wo	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> und labelled accord	No 1272/2008: ma symptoms or bi 272/2008:		s if inhaled.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substa Hazard pu Signal wa Hazard st	fication of the sub tion according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements:	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> and labelled accord	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLF	P regulation.	s if inhaled.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substration Hazard po Signal woo Hazard st H334 Mat	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> and labelled accord	No 1272/2008: ma symptoms or bi 272/2008:	P regulation.	s if inhaled.
2.1 Classificat Classificat Resp. Sen 2.2 Label Labelling The subst. Hazard pr Signal wo Hazard st H334 Ma Precautio	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or mary statements	Regulation (EC) N use allergy or asth ulation (EC) No 1. and labelled accord	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLF	P regulation.	s if inhaled.
2.1 Classificat Classificat Resp. Sen 2.2 Label Labelling The subst. Hazard pr Signal wo Hazard st H334 Ma Precautio P261	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or mary statements Avoid breathing	Regulation (EC) N use allergy or asth ulation (EC) No 1. and labelled accord asthma symptoms o g dust.	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLF or breathing diffict	P regulation. ulties if inhaled.	s if inhaled.
2.1 Classi Classifica Resp. Sen 2.2 Label Labelling The subst. Hazard pi Signal wo Hazard st H334 Ma Precautio P261 P284	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inad	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> . asthma symptoms of g dust. lequate ventilation	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu ] wear respiratory	P regulation. Ilties if inhaled. protection.	
2.1 Classification Classification Resp. Sent 2.2 Label Labelling The substrict Hazard prices Signal was Hazard strict H334 May Precaution P261 P284 P304+P3	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inad 40 IF INHALED: 1	<b>Regulation (EC)</b> N use allergy or asth <b>ulation (EC) No 1</b> . asthma symptoms of g dust. lequate ventilation Remove person to j	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu ] wear respiratory fresh air and keep o	P regulation. Ilties if inhaled. protection. comfortable for bro	eathing.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substation Hazard pt Signal was Hazard st H334 May Precautio P261 P284 P304+P3 P342+P3	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inad 40 IF INHALED: I 11 If experiencing	Regulation (EC) N use allergy or asth ulation (EC) No 1 and labelled accord asthma symptoms of g dust. lequate ventilation Remove person to j respiratory sympto	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu wear respiratory fresh air and keep oms: Call a POISO	P regulation. Ilties if inhaled. protection. comfortable for bro N CENTER/doctor	eathing.
2.1 Classification Classification Resp. Sent 2.2 Label Labelling The substrict Hazard prices Signal was Hazard strict H334 May Precaution P261 P284 P304+P3	fication of the sub tion according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inad 40 IF INHALED: I 11 If experiencing Dispose of co	Regulation (EC) N use allergy or asth ulation (EC) No 1 and labelled accord asthma symptoms of g dust. lequate ventilation Remove person to j respiratory sympto	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu wear respiratory fresh air and keep oms: Call a POISO	P regulation. Ilties if inhaled. protection. comfortable for bro N CENTER/doctor	eathing.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substation Signal work Hazard pt Signal work Hazard st H334 May Precaution P261 P284 P304+P3 P342+P3 P501	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inad 40 IF INHALED: I 11 If experiencing Dispose of con regulations.	Regulation (EC) N use allergy or asth ulation (EC) No 1 and labelled accord asthma symptoms of g dust. lequate ventilation Remove person to j respiratory sympto	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu wear respiratory fresh air and keep oms: Call a POISO	P regulation. Ilties if inhaled. protection. comfortable for bro N CENTER/doctor	eathing.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substration Hazard pro- Signal woo Hazard st H334 May Precautio P261 P284 P304+P3 P342+P3 P501 2.3 Other	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inau 40 IF INHALED: I 11 If experiencing Dispose of cor regulations. hazards	Regulation (EC) N use allergy or asth ulation (EC) No 1 asthma symptoms of g dust. lequate ventilation Remove person to j respiratory sympto ntents/container	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu wear respiratory fresh air and keep oms: Call a POISO	P regulation. Ilties if inhaled. protection. comfortable for bro N CENTER/doctor	eathing.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substation Hazard pro- Signal woo Hazard st H334 Mai Precautio P261 P284 P304+P3 P342+P3 P501 2.3 Other Results oj	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or mary statements Avoid breathing [In case of inaa 40 IF INHALED: I 11 If experiencing Dispose of con regulations. hazards f PBT and vPvB a	Regulation (EC) N use allergy or asth ulation (EC) No 1. asthma symptoms of dust. lequate ventilation Remove person to f respiratory sympto ntents/container	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu wear respiratory fresh air and keep oms: Call a POISO	P regulation. Ilties if inhaled. protection. comfortable for bro N CENTER/doctor	eathing.
2.1 Classification Classification Resp. Sen 2.2 Label Labelling The substr Hazard pr Signal wo Hazard st H334 May Precautio P261 P284 P304+P3 P342+P3 P501 2.3 Other Results of PBT: PB2	fication of the sub ation according to GHS08 s. 1 H334 May ca elements according to Reg ance is classified a ictograms: GHS08 ord: Danger atements: y cause allergy or nary statements Avoid breathing [In case of inau 40 IF INHALED: I 11 If experiencing Dispose of con regulations. hazards	Regulation (EC) N use allergy or asth ulation (EC) No 1. asthma symptoms of g dust. lequate ventilation Remove person to j respiratory sympto ntents/container ssessment: available.	No 1272/2008: ma symptoms or bi 272/2008: ling to the GB CLH or breathing difficu wear respiratory fresh air and keep oms: Call a POISO	P regulation. Ilties if inhaled. protection. comfortable for bro N CENTER/doctor	eathing.

Printing date 11.07.2025

Version number 1

Revision: 11.07.2025

Trade name: MB134-DNase I (lyophilized)

· Determination of endocrine-disrupting properties No further relevant information available.

(Contd. of page 1)

### SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description:
- 9003-98-9 Nuclease, deoxyribo-
- Identification number(s):
- EC number: 232-667-0

### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. After eye contact:

Rinse opened eye for several minutes with running water. Remove contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- · After swallowing:
- *Rinse out mouth. Drink plenty of water and provide fresh air. Consult a doctor in case of complaints.* • 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

 $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:

- In case of fire, the following can be formed, but not limited to: Nitrogen oxides (NOx)
- Carbon monoxide and carbon dioxide

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained breathing apparatus.

### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.
- **6.4 Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

(Contd. on page 3)

GB

Printing date 11.07.2025

Version number 1

Revision: 11.07.2025

#### Trade name: MB134-DNase I (lyophilized)

(Contd. of page 2)

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling:

No special measures required.

Prevent formation of dust.

• Information about protection against explosions and fires: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store containers tightly closed and dry.
- 7.3 Specific end use(s): No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- **Breathing equipment:** Short term filter device:
- Filter P2.
- Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- $\cdot$  For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Natural rubber, NR
- Nitrile rubber, NBR
- Eye/face protection: Safety glasses
- **Body protection:** Protective work clothing.

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- General Information:
- · Physical state:

Solid.

(Contd. on page 4)

GB

Printing date 11.07.2025

Version number 1

Revision: 11.07.2025

### Trade name: MB134-DNase I (lyophilized)

	(Contd. of page 2
Colour:	White
Odour:	Odourless
Odour threshold:	not determined.
• Melting point/freezing point:	No information available
Boiling point or initial boiling point and boiling	
range:	No information available
Flammability:	No information available
Lower and upper explosion limit:	
Lower:	No information available
Upper:	No information available
Flash point:	No information available
Decomposition temperature:	No information available
pH:	No information available
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility:	
Water:	no information available
Partition coefficient n-octanol/water (log value):	No information available
Vapour pressure:	No information available
Density and/or relative density:	
Density at 20 °C:	1.37 g/cm <sup>3</sup>
Relative density at 20 °C:	1.37
Particle characteristics	No information available
9.2 Other information	
Appearance:	
Form:	lyophilisate
Important information on protection of health and	1
environment, and on safety:	
Explosive properties:	The product is not explosive, but the formation of explosive dust/air mixtures is possible.

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity: No further relevant information available.

· 10.2 Chemical stability:

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions: No further relevant information available.
- · 10.4 Conditions to avoid: High temperatures
- 10.5 Incompatible materials: Avoid contact with strong oxidising agents, strong acids, strong alkalis.
- · 10.6 Hazardous 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:
- Acute toxicity: Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · 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 allergy or asthma symptoms or breathing difficulties if inhaled.
- · 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.

(Contd. on page 5)

GB

Printing date 11.07.2025

Version number 1

Revision: 11.07.2025

(Contd. of page 4)

Trade name: MB134-DNase I (lyophilized)

- 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: No relevant information available

### **SECTION 12: Ecological information**

- · 12.1 Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment:
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- · Additional ecological information:
- · General notes:
- Do not allow product to reach ground water, water course or sewage system.
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation
- Dispose of in accordance with official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class:	Void	
14.4 Packing group		
ADR, IMDĞ, IATA	Void	
14.5 Environmental hazards	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according	g to IMO	
instruments	Not applicable.	

Printing date 11.07.2025

· UN ''Model Regulation'':

Version number 1

Revision: 11.07.2025

(Contd. of page 5)

Trade name: MB134-DNase I (lyophilized)

· Transport/Additional information:	Not dange

ngerous according to the above specifications.

Void

### **SECTION 15: Regulatory information**

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

- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- **Regulated poisons** Substance is not listed.
- Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed.
- REGULATION (EU) 2019/1148 • Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing
- under Article 5(3)) Substance is not listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.
- · National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- · Contact: +49 6221 13840-34
- Date of previous version: 11.07.2025

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

vPvB: very persistent, very bioaccumulative substance (UK REACH)

UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

- GB CLP: Regulation on classification, labelling and packaging of substances and mixtures
- bw: body weight

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic
- *PB1: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative*

Resp. Sens. 1: Respiratory sensitisation – Category 1

<sup>•</sup> Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic substance (UK REACH)