

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 740963

rDNase Set

Page: 1/7

Printing date: 12.05.2021

Date of issue: 04.05.2021

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

### 1.1 Product identifier

REF 740963  
Product name rDNase Set

REACH Registration number(s): see SECTION 3.1/3.2 or  
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 7 mL DRB (OEM)  
1 x 1000 U rDNase Size F (Iyo)

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

**Relevant identified uses**

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

**Uses advised against**

not described

### 1.3 Details of the supplier of the safety data sheet

**Manufactured by:**

MACHEREY-NAGEL GmbH & Co. KG  
Valenciener Str. 11, 52355 Düren, GERMANY  
Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.  
DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

<http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



GHS08

Signal word DANGER

**Hazard identification** **Hazard classes/categories**

H334 Resp. Sens. 1

### 2.1 Classification of the substance or mixture

7 mL DRB (OEM)

Signal word Do not need labelling as hazardous  
-

No hazard class

1000 U rDNase Size F (Iyo)

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GHS08

Signal word

DANGER

Hazard identification	Hazard classes/categories
H334	Resp. Sens. 1

## 2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(s) (EU 1272/2008 Annex I - 1.5.1.2).  
This labelling exemption is NOT valid for sensibilizing substances.

### 7 mL DRB (OEM)

Do not need labelling as hazardous  
Signal word: -

### 1000 U rDNase Size F (Iyo)



GHS08

Signal word: DANGER

H334  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P342+311  
Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

## 2.3 Other hazards

### Possible hazards from physicochemical properties

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### Information pertaining to particular risks to human and possible symptoms

Cause after impairments of health when ingested in small quantities.  
Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust. -

### Information pertaining to particular risks to the environment

PBT: not applicable  
vPvB: not applicable

### Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 7 mL DRB (OEM)

Chemical: *chemicals/mixture < 2%*  
Classification: No criteria for classification or naming of chemical not required.  
TSCA Inventory: all listed, <2%  
KE No.: listed  
Concentration: 1 - <2 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

CAS No.: -

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## 1000 U rDNase Size F (Iyo)

Chemical: rDNase

CAS No.: 9003-98-9

Classification: H334, Resp. Sens. 1

Formula: Enzyme Comm. No. 3.1.21.1, origin: cloned

Pseudonym: Nuclease, deoxyribo-

TSCA Inventory: listed

EC No.: 232-667-0

RTECS: RF0750000

KE No.: KE-09612

Concentration: 90 - <100 %

acc. CLP (GHS): H334, Resp. Sens. 1

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water.

#### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes or: After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of vapours

Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. After inhalation of dust fresh air should be inhaled. ---

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

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

Inform patient respectively further measures and the possibility of long-term damages. ---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

### 5.2 Special hazards arising from the substance or mixture

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### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

### 5.4 Additional information

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dusting. Do not breathe dust. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

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**6.2 Environmental precautions**

not necessary

**6.3 Methods and material for containment and cleaning up**

Remove remaining dust with a vacuum cleaner. If there is no vacuum cleaner, wet dust well and remove mechanical (Inhalation protection). And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

**6.4 Reference to other sections**

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## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Avoid dusting. Use only in well-ventilated working areas.

**7.2 Conditions for safe storage, including any incompatibilities**

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 12  
 Water hazard class (DE): 1

**7.2.1 Requirements for stock rooms and containers**

Keep original product packages tightly closed during handling and storage.

**7.3 Specific end use(s)**

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**7 mL DRB (OEM)**

Chemical: *chemicals/mixture < 2%*

CAS No.: -

**1000 U rDNase Size F (Iyo)**

Chemical: *rDNase*

CAS No.: 9003-98-9

**8.2 Exposure controls**

The highest level of cleanliness must be maintained at the workplace.

**8.2.1 Respiratory protection**

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

**8.2.2 Hand protection**

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or KCL).

**8.2.3 Eye protection**

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

**8.2.4 Skin protection**

Recommended to avoid contamination with these hazards.

**8.2.5 Personal hygiene**

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

**7 mL DRB (OEM)**

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

6.5-7.5

Specific gravity:

1.01 g/cm<sup>3</sup>

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## 1000 U rDNase Size F (Iyo)

Appearance: solid (lyoph.)

Colour: white

Odor: odorless

## 9.2 Other information

Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no further data available.

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

No further data available.

### 10.4 Conditions to avoid

Not necessary. ---

### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances.

#### 7 mL DRB (OEM)

Chemical: *chemicals/mixture < 2%*

CAS No.: -

TSCA Inventory: all listed, &lt;2%

Korea Exist.Chem.Inventory: listed

Avoid inhalation of dust.

#### 1000 U rDNase Size F (Iyo)

Chemical: *rDNase*

CAS No.: 9003-98-9

TSCA Inventory: listed

Japan CSCL/PRTR: not listed

Japan ISHL: not listed

Korea Exist.Chem.Inventory: KE-09612

Acute Effects: Cause after impairments of health when ingested in small quantities.

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust.

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 7 mL DRB (OEM)

Chemical: *chemicals/mixture < 2%*

CAS No.: -

Water hazard class (DE): 1

Storage class (VCI): 12-13

#### 1000 U rDNase Size F (Iyo)

Chemical: *rDNase*

CAS No.: 9003-98-9

Water hazard class (DE): 1

WGK No.: n.n.

Storage class (VCI): 13

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- 12.2 Persistence and degradability**  
not necessary
- 12.3 Bioaccumulative potential**  
not necessary
- 12.4 Mobility in soil**  
not necessary
- 12.5 Results of PBT and vPvB assessment**  
no data available
- 12.6 Other adverse effects**  
no additional data available

## SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

- 13.1 Waste treatment methods**

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

- 14.5 Environmental hazards**  
none
- 14.6 Special precautions for user**  
not necessary
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
not applicable

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011  
Look for your country-specific regulations.
- 15.2 Chemical safety assessment**  
not necessary for these small amounts ---

## SECTION 16: Other information

- 16.1 List of H and P phrases**
  - 16.1.1 List of relevant H phrases**  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - 16.1.2 List of relevant P phrases**  
P261sh Avoid breathing dust/vapours.  
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- 16.2 Training advice**  
Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.
- 16.3 Recommended restriction on use**  
Only for professional user.  
Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!  
Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)!  
An individual package of this product or test kit has a moderate hazardous potential.



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## 16.4 Further information

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## 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU