

Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 740921
 Buffer B5 Concentrate (25 mL)
 Page: 1/7

 Printing Date: 04.04.2023
 Date of Issue: 27.02.2023
 Version: 2.2.5.4

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

1.1 Product Identifier / Product Name

REF 740921

Product Name Buffer B5 Concentrate (25 mL)

1 x 25 mL B5

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 and of the Safety Data Sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany

Phone: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency Telephone Number

Information not necessary

You find our current versions of SDS in Internet:

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

SECTION 2: Hazard(s) Identification

2.0 Classification of the complete Product

2.1 Classification of the substance or mixture

25 mL B5

Do not need labelling as hazardous

Signal Word

No Hazard Class

List of H phrases: see section 16.2

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

25 mL B5

Do not need labelling as hazardous Signal Word: -

Label elements of the complete product

2.3 Other Hazards

Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.

Information pertaining to particular Risks to Human and possible Symptoms

Information pertaining to particular Risks to the Environment



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Software: M2 V 6.1.1.5



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Possible endocrine disrupting effects

data not available

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

25 mL B5

Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Concentration: 0,1 - <1 %

acc. GHS: The criteria for classification are not fulfilled.

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of Hazard and Precaution phrases: see section 16.2.

SECTION 4: First-Aid Measures

4.1 Description of First-Aid Measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 After SKIN Contact

Not necessary

4.1.2 After EYE Contact

Not necessary.

4.1.3 After INHALATION of Vapors

Not necessary.

4.1.4 After ORAL Intake

Not necessary.

4.2 Most important Symptoms and Effects, both acute and delayed

4.3 Indication of any immediate Medical Attention and Special Treatment needed

No additionally recommendations. ---

SECTION 5: Fire-Fighting Measures

5.1 Extinguishable Media

5.1.1 Suitable 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. 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.

5.1.2 Unsuitable extinguishing media

data not available

5.2 Special Hazards arising from the Substance or Mixture

None.

5.3 Advice for Firefighters

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



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5.4 Additional Information

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. Not necessary.

6.2 Environmental Precautions

not necessary

6.3 Methods and Material for Containment and Cleaning up

Clean working area with water. Flush used water into sewer.

6.4 Reference to other Sections

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Handling in accordance with the test instruction, that comes with the product.

7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package allows a safe storage. Storage class (German chemical industry): see chapter 12.1 **Storage class (VCI):** 12

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

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

25 mL B5

Chemical: chemicals/mixture until 1% CAS No.: -

8.2 Exposure Controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

8.2.1 Respiratory Protection

Not necessary.

8.2.2 Skin protection / Hand protection

Not necessary.

8.2.3 Eye / Face Protection

Not necessary.

8.2.4 Skin Protection

Not necessary

8.2.5 Hygiene Measures

Information not necessary.

8.2.6 Thermal hazards

data not available

8.3 Limitation and monitoring of environmental exposure

Information not necessary.



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SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

25 mL B5

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available 7-8 k) pH Value: I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available

o) Vapor Pressure (68°F):

data not available

data not available

p) Specific Gravity:

q) Relative Vapor Density (air=1):

r) Particle Size:

data not available

data not available

data not available

data not available

9.2 Further Information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups**

SECTION 10: Stability and Reactivity

10.1 Reactivity

None

10.2 Chemical Stability

no known instability.

10.3 Possibility of Hazardous Reactions

None.

10.4 Conditions to avoid

Not known.

10.5 Incompatible Materials

Not known. ---

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 chemicals. Quantitative data on the toxicity of this product are not available.

25 mL B5

Chemical: chemicals/mixture until 1% CAS No.: TSCA Inventory: all listed, <1%

11.2 Other Hazards

Possible endocrine disrupting effects



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data not available

Other Information

no additional data available

SECTION 12: Ecological Information

12.1 Toxicity

Following information is valid for pure chemicals.

25 mL B5

Chemical: chemicals/mixture until 1% CAS No.: -

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

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

12.6 Endocrine disrupting properties

data not available

12.7 Other Adverse Effects

no additional data available

SECTION 13: Disposal Considerations

Not necessary.

13.1 Waste Treatment Methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport Information

14.1. -14.4. Not necessary

14.5 Environmental Hazards

none

14.6 Special Precautions for User

not necessary

14.7 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

https://www.osha.gov/dsg/hazcom/ghs.html

29 CFR 1910.1200 Hazard communication.

MN Leaflet/User manual, also see www.mn-net.com

15.2 Chemical Safety Assessment



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SECTION 16: Other Information

16.1 Changes compared to the last version

Between versions 2.2.5.4 and 2.2.2.2 following changes were applied: - 3 composition data corrected - 2 substance data corrected

16.2 **List of Hazard and Precaution Phrases**

16.2.1 List of relevant H Phrases List of relevant P Phrases 16.2.2

16.3 Recommended Restriction on Use

16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive

SUVA .CH, limit values in the air at work 2009, revised on 01/2009 Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)

Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)

Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019
Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)

Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

revisions/updates

2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary Reason for revision:

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

16.5 **Further Information**

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.6 Legend / Abbreviations

acc: according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

carcinogen Carc.

CAS: Chemical Abstracts Service

Classification, Labelling and Packaging regulation CLP:

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

chemical oxigen demand COD:

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

DNEL: Derived No-Effect Level (for workers)

derm: dermal dog: dog



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EC10: Concentration causing a toxic effect in 10% of the test organisms

EC: **European Community**

EC-Nr: Substance number of the EC substance inventory EmS: Guide to accident management measures on ships

EU: **European Union** fish (not specified) fish:

Global Harmonized System of Classification and Labeling of Chemicals GHS:

gpg: ICAO:

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% LD50: letale dosis 50%

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl: oral

OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed PBT: persistent, bioaccumulating, toxic substance

pH: pH value

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15:

Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) PRTR:

PVC: polyvinyl chloride quail: bird, quail rat: rat rbt: rabbit

rapidly degradable RD.

repeated RF:

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals REF: item number, reference number

Reg.No.: rRegistration number

harmful to reproduction Repr:

respiratory Resp:

scu: sub cutan

REACH Implementations Projects RIP:

SDS: safety data sheet sensitisation Sens:

short term exposure limit STFI: STOT: Specific Target Organ Toxicity SVHC: Substance of Very High Concern

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea)

toxic Tox:

TSCA: The Toxic Substances Control Act (US)

TWA: time weighted average technical regulations (DE) TRGS:

vPvB: very persistent, very bioaccumulating substance

16.7 **Training Advice**

Regular safety training. 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.



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