

# Safety Data Sheet

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

REF: 740916.1 Buffer AW (1000 mL) Page: 1/8

Printing date: 12.05.2021 Date of issue: 20.07.2020

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

### 1.1 **Product identifier**

REF 740916.1

Product name Buffer AW (1000 mL)

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 1000 mL AW

### 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

Valencienner 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**

### 2.1 Classification of the substance or mixture

1000 mL AW





GHS07

Signal word WARNING

Hazard identification Hazard classes/categories H226 Flam. Liq. 3 H302 Acute Tox. 4 oral

H319 Eye Irrit. 2 H336, H335 STOT SE 3

### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

The irritant hazard should be eliminated, because of buffer chemicals inside.

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### 1000 mL AW





Signal word: WARNING

H226, H302, H319, H336

Flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation. May cause drowsiness or dizziness.

P210, P260D, P264W, P280sh, P301+312, P330

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe vapours. Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. Vapour forms explosive mixtures

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

Cause after oral intake, impairments of health when ingested in small quantities. -

### Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable

Other hazards

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

### 3.1 **Substances or 3.2 Mixtures**

1000 mL AW

guanidine hydrochloride Chemical: CAS No.: 50-01-1

H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2 Classification:

CH<sub>6</sub> CIN<sub>3</sub> Formula:

Pseudonym: guanidinium chloride TSCA Inventory: listed

REACH Reg. No.: 01-2119977063-35-0005 EC No.: 200-002-3

607-148-00-0 Indice No.: MF4300000 00013026 RTFCS: MFCD:

KE No.: KE-18111 Concentration: 36 - < 50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

CAS No.: 67-63-0 Chemical: 2-propanol

Classification: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3

Formula: C<sub>3</sub> H<sub>8</sub> O Pseudonym: isopropanol, IPA, propan-2-ol

TSCA Inventory: listed

REACH Reg. No.: 01-2119457558-25-XXXX

200-661-7 EC No.: 603-117-00-0 Indice No.: NT8050000 RTFCS: MECD: 00011674

KE No.: KE-29363 Concentration: 20 - <35 %

acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3

### 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

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### **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.

#### 4.1.1 **After SKIN Contact**

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

#### After INHALATION of vapours 4.1.3

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

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

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

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

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

## **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.

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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. --

### 5.3 Advice for firefighters

No, for listed product. The substance/mixture is flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible. Heating will lead to an increase in pressure, and a danger of bursting. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

### 5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

### SECTION 6: Accidental release measures

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

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Keep product away from sources of ignition -No smoking. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

### 6.2 **Environmental precautions**

not necessary

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

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

### 6.4 Reference to other sections

see information in section 5.4 ---

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## **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 of MACHEREY-NAGEL allows a safe storage.

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

1000 mL AW

Chemical: guanidine hydrochloride CAS No.: 50-01-1

[inh] 3.5 mg/m<sup>3</sup> DNFI · Level (for workers)

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

Chemical CAS No.: 67-63-0

[inh] 500 mg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 140.9 mg/L PNEC = Predicted No Effected Concentration 200 ppm / 500 mg/m<sup>3</sup> TRGS 900 (DE):

E/e respirable

Short-term exposure factor: 2 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

200 ppm / 500 mg/m<sup>3</sup> SUVA(CH) MAK value: TRGS 903 (DE):

[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift

[TWA] 400 ppm / 980 mg/m<sup>3</sup>

NIOSH STEL: 500 ppm / 1225 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 400 ppm / 980 mg/m<sup>3</sup>

### 8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

### 8.2.1 Respiratory protection

No additional recommendations

### 8.2.2

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

## 8.2.3

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

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.

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

### 9.1 Information on basic physical and chemical properties

1000 mL AW

Appearance: liquid Colour: colourless Odor: alcoholic

pH: 7-8 Flash point: 25 °C Specific gravity: 1.06 g/cm3

### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. Relevant Properties of Substance Group

## 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

But avoid reactions with oxidizing agents. Note: Can form very reactive substances with oxidizing agents. No further data available.

#### 10.4 Conditions to avoid

Not necessary. But can form explosive gases/vapour with air. Use only in a well-ventilated working areas. ---

### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines. Avoid storage with oxidising substances.

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

### 1000 mL AW

Chemical: guanidine hydrochloride CAS No.: 50-01-1

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 475-907 mg/kg LD50<sub>orl rat</sub>: [4h] 3181-7655 µg/m<sup>3</sup> LC50<sub>ihl rat</sub>: LD50<sub>drm rbt</sub> 2000 mg/kg

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

CAS No.: 67-63-0 Chemical:

TSCA Inventory: listed California Proposition 65 List: not listed

1230 ppm ACGIH:

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact

**Target Organs:** Eyes, skin, respiratory system

Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis

Australia NICNAS: Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PAC yes, Japan PDSCL: -

Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50<sub>orl rat</sub>: 5045 mg/kg 3570 mg/kg LC Loworl hmn: LC50<sub>ihl rat</sub>: 16<sub>4h</sub> g/m<sup>3</sup>

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> LD50<sub>drm rbt</sub>: 12.8 g/kg TRGS 905 (DE): R<sub>F</sub> C

## **SECTION 12: Ecological information**

### 12.1 **Toxicity**

Following information is valid for pure substances.

1000 mL AW

Chemical: guanidine hydrochloride CAS No.: 50-01-1

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

1759 mg/L

 $LC50_{leuciscus\ idus/96h}$  :

LC50<sub>fish/96h</sub>: [4d] 690-1850; [48h] 1758-2420 mg/L

EC50<sub>daphnia/48h</sub>: 70.2 mg/L

[72h] 11.8-33.5 mg/L EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): WGK No.: 0788

Storage class (VCI): 12

CAS No.: 67-63-0 Chemical: 2-propanol

PNEC<sub>(fresh water)</sub>:
PNEC = Predicted No Effected Concentration 140.9 mg/L

LC50fish/96h: 1400 mg/L EC50<sub>daphnia/48h</sub>: 13.3 g/L >1000 mg/L

IC50<sub>scenedesmus</sub> quadricauda/72h: EC5: 1050 mg/L EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): WGK No.: 0135

Dispersion coefficient<sub>(octanol-water)</sub>: 0.05 Storage class (VCI):

### 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

Normally it is possible to empty small amounts (diluted!) into drains.

## **SECTION 14: Transport information**

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)

14.3 Class: 14.4 Packing group: III

366

Road transport Classification code: F1

Limited Quantity: Tunnel restriction code: **Excepted Quantity:** Special instructions: 640E Air transport PAX. 355 max. weight PAX: 60 I

Maritime transport

CAO:

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max. weight CAO:

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220 L



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FmS<sup>-</sup> F-E. S-E Storage category: Α

### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

## **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

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

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

Flammable liquid and vapour. H302 Harmful if swallowed. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

#### 16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260D Do not breathe vapours.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312

P330

### 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.

### 16.4 **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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### 16.5 Sources of key data

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

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

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

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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

Directive 1999/92/EC Minimum requirements for improving the safety and health protection of workers at risk from potentially explosive

atmospheres

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

Revisions/Updates

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

2017-11 Adaption of ECHA Registration dossier

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