



Safety Data Sheet

according to ISO/DIS 11014

Component of Cat.-no.: ASE

Date: 22.04.2004

Rev.: 1.2

Page 1 of 6

1. Identification of the substance/preparation and company

Trade name:

Aqua Screen[®] Wash Buffer 1

Company: Minerva Biolabs GmbH
Landhausring 7
D-12683

Telephone: +49-30 2000 4370

Telefax: +49-30 2000 4379

Poison emergency telephone no.: +49-30 2000 4370

Use of the substance/preparation

preparation buffer

2. Composition/information on ingredients

Chemical characterization: (preparation)

Liquid

Hazardous components

EC No.	CAS No.	Components	Value	Symbols	R-phrases
--------	---------	------------	-------	---------	-----------

50-01-1	-	guanidinium chloride	50-100 %		
---------	---	----------------------	----------	--	--

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

3. Hazards identification

Hazard description:

Harmful.

Information pertaining to particular dangers for man and environment:

Harmful if swallowed.

Irritating to eyes and skin.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0-4)

Health = 2

Fire = 0

Reactivity = 0

WHMIS-ratings (scale 0-4)

Health = 2

Fire = 0

Reactivity = 0

4. First aid measures

After inhalation

Move to fresh air. If symptoms persist, call a physician.

Date: 22.04.2004

Rev.: 1.2

Page 2 of 6

After contact with skin

Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

After ingestion

Immediately call a physician.

5. Fire-fighting measures

Suitable extinguishing media

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for firefighters

Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation.

Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up/taking up

Spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. Dispose contaminated material as waste according to item 13.

7. Handling and storage

7.1 Handling

Recommendation on safe handling

Keep receptacles tightly sealed.

Recommendation on protection against fire and explosion

No special precautions required.

7.2 Storage

Requirements for storage rooms and vessels

No special requirements.

Recommendation on storage compatibility

Not required.

Additional recommendations about storage conditions

Keep receptacle tightly sealed.

8. Exposure controls/personal protection

Additional information about design of technical systems

No further data; see item 7.

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.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing equipment

Not required.

Protection of hands

Protective gloves.

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Tightly sealed goggles.

9. Physical and chemical properties

9.1 Appearance

Form: Fluid
Color: According to product specification.
Odour: Characteristic

Changes in the physical state

Melting point:	n.d. °C
Boiling point:	n.d. °C
Flash point:	n.a. °C
Flammability	
solid:	n.a. °C
gas:	n.a. °C

Date: 22.04.2004

Rev.: 1.2

Page 4 of 6

Explosive properties
None.

Vapor pressure at 20°C (68°F) 23 hPa (17 mm Hg)

Density at 20°C (68°F) 1.148 g/cm³

Water solubility fully miscible

pH-value at 20°C (68°F) 7.5

9.3 Other information

Autoignition temperature

solid: n.a.

gas: n.a.

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

Dangerous reactions

Reacts with acids, alkalis and oxidizing agents.

Dangerous products of decomposition

No dangerous decomposition products known.

11. Toxicological information

Acute toxicity

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitising effect

No known sensitizing effect.

Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

12. Ecological information

General Notes

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

Do not allow product to reach ground water, water course or sewage system.

13. Recommendations on disposal

Product

Recommendation

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

Date: 22.04.2004

Rev.: 1.2

Page 5 of 6

Contaminated packaging

Recommendation Disposal must be made according to official regulations.

Recommended
cleansing agent: Water, if necessary with cleansing agents.**14. Transport information****DOT regulations****Hazard class** -**Land transport ADR/RID (cross-border)****ADR/RID class** -**Maritime transport IMDG****IMDG Class****Marine pollutant** No**Air transport ICAO-TI and IATA-DGR****ICAO/IATA Class** -**15. Regulatory information****Sara****Section 355 (extremely hazardous substances)**

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings)

None of the ingredients is listed.

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Proposition 65**Chemicals known to cause cancer**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity

None of the ingredients is listed.

Product related harard informations

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols

Harmful

Hazard-determining components of labelling

guanidinium chloride

Risk phrases

Harmful if swallowed.

Irritating to eyes and skin.

Safety phrases

Keep away from food, drink and animal feedingstuffs.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container of label.

Date: 22.04.2004

Rev.: 1.2

Page 6 of 6

National regulations

Water hazard class

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

16. Other information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

n.a. = not applicable

n.d. = not determined