

Material Safety Data Sheet
According to 91/155 EEC

Printing date 01.12.2004

Reviewed on 01.12.2004

*** 1 Identification of substance:****Trade name: Baquacil PHMB****Article number:** 11530 baq**Application of the substance / the preparation**Water treatment
Water disinfectant**Manufacturer/Supplier:**ARCH WATER PRODUCTS FRANCE
BP 219 - 37402 Amboise Cedex - FRANCE
tel : +33 (0)2 47 23 43 00
fax : +33 (0)2 47 23 12 21**Information in case of emergency:**CALL A LOCAL NATIONAL POISON CONTROL UNIT OR
ARCH USA CHEMICALS EMERGENCY 24 HOUR TEL No. + 1-423-780-2970
FOR UK CONTACT NCEC Tel 01865 407 333**2 Composition/Data on components:****Chemical characterization:****CAS No. Description:**chlorhydrate de polyhexaméthylènebiguanide en solution à
20%**Identification number(s):** 900002-00-0**Chemical characterization****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

27083-27-8 Polymeric Biguanide Hydrochloride

Xn, N; R 22-38-41-43-50/53 10-25%

Additional information For the wording of the listed risk phrases refer to section 16.**3 Hazard identification****Hazard description:**Xi Irritant
N Dangerous for the environment**Information concerning to particular hazards to man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures**After inhalation**

Supply fresh air and to be sure call for a doctor.

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

After skin contact

Rinse with warm water.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing** If symptoms persist consult doctor.**5 Fire fighting measures****Suitable extinguishing agents** Water spray

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Protective equipment: No special measures required.

6 Accidental release measures

Person-related safety precautions: Wear protective clothing.**Measures for environmental protection:**

Keep contaminated washing water and dispose of appropriately.

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

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

Handling

Information for safe handling: No special precautions are necessary if used correctly.**Information about fire - and explosion protection:** No special measures required.

Storage

Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Protect from frost.

Keep receptacle tightly sealed.

8 Exposure controls and personal protection gear

Additional information about design of technical facilities: No further data; see item 7.**Ingredients 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 valid during the making were used as basis.

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.

Respiratory protection: Not required.**Protection of hands:**

Protective gloves.

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

Eye protection:

Face protection



Tightly sealed goggles.

* 9 Physical and chemical properties:

General Information

Form:

Fluid

Colour:

Light blue

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Odour:	Characteristic
Change in condition	
Melting point/Melting range:	0°C
Boiling point/Boiling range:	102°C
Flash point:	Not applicable
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined
Bulk density at 20°C:	1.04 kg/m ³
Solubility in / Miscibility with Water:	Fully miscible
pH-value at 20°C:	5.5
Solvent content:	
Organic solvents:	0.0 %

10 Stability and reactivity

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

Dangerous reactions No dangerous reactions known

Dangerous decomposition products: Poisonous gases/vapours

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

27083-27-8 Polymeric Biguanide Hydrochloride

Oral LD50 > 2000mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Irritant

12 Ecological information:

Ecotoxicological effects:

Acquatic toxicity:

27083-27-8 Polymeric Biguanide Hydrochloride

Oral CL50 (96h) (dynamic) < 1 mg/l (rainbow trout)

CE50 (48h) 0.18 - 0.45 mg/l (dm)

CL50 (96h) (static) 0.65 - 0.9 mg/l (pl)

Remark: Very toxic for fish

General notes:

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13 Disposal considerations

Product:

Recommendation

Must be specially treated adhering to official regulations.

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

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

Land transport ADR/RID (cross-border)



ADR/RID class: 9 Miscellaneous dangerous substances and articles.
Item: M6
Danger code (Kemler): 90
UN-Number: 3082
Hazard label: 9
Description of goods: 3082 Environmentally hazardous substance, liquid, n.o.s.

Maritime transport IMDG:



IMDG Class: 9
UN Number: 3082
Label: 9
Packaging group: III
EMS Number: F-A,S-B
Marine pollutant: Yes
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 9
UN/ID Number: 3082
Label: 9
Packaging group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

15 Regulations

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Code letter and hazard designation of product:



Xi Irritant
 N Dangerous for the environment

Hazard-determining components of labelling:

Polymeric Biguanide Hydrochloride

Risk phrases:

36/38 Irritating to eyes and skin.
 43 May cause sensitisation by skin contact.
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

2 Keep out of the reach of children.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 28 After contact with skin, wash immediately with plenty of water.
 29 Do not empty into drains.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 46 If swallowed, seek medical advice immediately and show this container or label.

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61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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 R-phrases

22 Harmful if swallowed.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*** Data compared to the previous version altered.**