

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2018

Version number 6

Revision: 22.10.2018

1 Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

- Trade name: ***1406 • Biorex M***
- SDS-ID (International): 200042-8
- SDS Download URL: www.sds-id.com/

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

Only use for indicated purposes.

- Application of the substance / the preparation: ***Cleaning solution • Cleaning material***

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer:

*Glaswarenfabrik Karl Hecht GmbH & Co KG
Stettener Str. 22 - 24 • 97647 Sondheim/Rhön • Germany*

· Further information obtainable from:

*Fon: +49 9779 808-0 • Fax: +49 9779 808-88 • info@hecht-assistent.de
www.assistent.eu*

· 1.4 Emergency telephone number:

*Fon: +49 9779 808-0 • Fax: +49 9779 808-88 • info@hecht-assistent.de
*Available during business time.**

2 Hazards identification

· 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS05

- Signal word *Danger*

· Hazard-determining components of labelling:

sodium hydroxide

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260

Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

* 3 Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

- **Dangerous components:**

<i>CAS: 1310-73-2</i>	<i>sodium hydroxide</i>	<i>≥0.5-<2%</i>
<i>EINECS: 215-185-5</i>	<i>⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302</i>	
<i>Index number: 011-002-00-6</i>		

- **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

4 First aid measures

- **4.1 Description of first aid measures**
- **General information:** *Immediately remove any clothing soiled by the product.*
- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Drink plenty of water and provide fresh air. Call for a doctor immediately.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** *Mouth respiratory protective device.*

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.

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Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:** *No special measures required.*
- **6.3 Methods and material for containment and cleaning up:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **6.4 Reference to other sections**
*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

7 Handling and storage

- **7.1 Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.*
- **Information about fire - and explosion protection:** *Keep respiratory protective device available.*
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** *No special requirements.*
 - **Information about storage in one common storage facility:** *Not required.*
 - **Further information about storage conditions:** *Keep container tightly sealed.*
 - **Storage class:** *8 B*
- **7.3 Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **8.1 Control parameters**
- **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.*
- **8.2 Exposure controls**
 - **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.
Avoid contact with the eyes and skin.*
 - **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:

Protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. The recommendations apply only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min
· As protection from splashes gloves made of the following materials are suitable:
Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min
· Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

Form: *Fluid*
Colour: *Colourless*

· Odour: *Slightly*

· Odour threshold: *Not determined.*

· pH-value at 20 °C: *13*

· Change in condition

Melting point/freezing point: *Undetermined.*

Initial boiling point and boiling range: *100 °C*

· Flash point: *Not applicable.*

· Flammability (solid, gas): *Not applicable.*

· Decomposition temperature: *Not determined.*

· Auto-ignition temperature: *Product is not selfigniting.*

· Explosive properties: *Product does not present an explosion hazard.*

· Explosion limits:

Lower: *Not determined.*

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Upper:	<i>Not determined.</i>
· Vapour pressure at 20 °C:	<i>23 hPa</i>
· Density at 20 °C:	<i>1.03 g/cm³</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with water:	<i>Not miscible or difficult to mix.</i>
· Partition coefficient: n-octanol/water:	<i>Not determined.</i>
· Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
· Solvent content:	
Water:	<i>93.1 %</i>
· 9.2 Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

- 10.1 Reactivity *No further relevant information available.*
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*
- 10.3 Possibility of hazardous reactions *No dangerous reactions known.*
- 10.4 Conditions to avoid *No further relevant information available.*
- 10.5 Incompatible materials: *No further relevant information available.*
- 10.6 Hazardous decomposition products: *No dangerous decomposition products known.*

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity *Based on available data, the classification criteria are not met.*

· LD/LC50 values relevant for classification:

1310-73-2 sodium hydroxide

Oral LD50 2,000 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation
Causes severe skin burns and eye damage.
- Serious eye damage/irritation
Causes serious eye damage.
- Respiratory or skin sensitisation *Based on available data, the classification criteria are not met.*
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity *Based on available data, the classification criteria are not met.*
- Carcinogenicity *Based on available data, the classification criteria are not met.*
- Reproductive toxicity *Based on available data, the classification criteria are not met.*

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- **STOT-single exposure** *Based on available data, the classification criteria are not met.*
- **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard** *Based on available data, the classification criteria are not met.*


12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**
Generally not hazardous for water
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Other adverse effects** *No further relevant information available.*

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
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.*

14 Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** *UN1824*
- **14.2 UN proper shipping name**
- **ADR** *1824 SODIUM HYDROXIDE SOLUTION mixture*
- **IMDG, IATA** *SODIUM HYDROXIDE SOLUTION mixture*
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- 
- **Class** *8 Corrosive substances.*

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· Label	8
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" acids.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION MIXTURE, 8, III

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I *None of the ingredients is listed.*
- REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 3*
- 15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

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 phrases
H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

- **Department issuing SDS:** *Product safety department*
- **Contact:** *eMail: versand@hecht-assistent.de*

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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