



SAFETY DATA SHEET

Natronwasserglas 37/40

according to 1907/2006/EC, Article 31

1.0 IDENTIFICATION OF SUBSTANCE

1.1 Product details:

Trade name: Natronwasserglas 37/40
Article number: 14380
Application of the substance /
the preparation: Basic chemical (without special defined application).
Manufacturer/Supplier: Keramikos
Oudeweg 153, 2031 CC Haarlem

Phone: 023 – 542 44 16

1.2 Informing department: Environment Protection Department.

1.3 Emergency information: **Poison control Center, Mainz, Phone: +49 61 31 19 240**

2.0 HAZARDS IDENTIFICATION

Hazard designation: Void.
Information pertaining to particular
danger for man and environment: According to data we have to hand this product is no hazardous material according to the spirit of EC directives or the German decree regarding hazardous materials in the latest valid version.

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Aqueous solution of sodium silicate < 40 %, mol ratio > 3,2.
CAS No. Designation: 1344-09-8 Silicic acid, sodium salt.
Identification no(s): - -
EINECS Number: 215-687-4.

4.0 FIRST AID MEASURES



General advice: Instantly remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

After eye contact: Rinse immediately opened eye for several minutes under running water. Then consult doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; instantly call for medical help.

Information for doctor

The following symptoms may occur: Burning effect and pain to eyes and skin. After swallowing pain in the digestive tract.

5.0 FIRE FIGHTING MEASURES

Suitable extinguishing agents: Product is non-flammable. Use fire fighting measure that suit the surroundings.

For safety reasons unsuitable extinguishing agents: None known.

Special hazards caused by the material, its products of combustion

or flue gases: Product is alkaline. Reacts with special metals (e. g. aluminium and zinc) forming readily flammable hydrogen.

Protective equipment: Adjust protective clothing to surrounding fire.

6.0 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product. Avoid contact with skin, eyes and clothes. Use breathing protection against the effects of fumes/dust/aerosol.

Measures for environmental protection: Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13.

7.0 HANDLING AND STORAGE

Handling

Information for safe handling: The usual good standards of industrial hygiene should be maintained. Avoid contact with eyes or skin. Avoid contact and inhalation of sprays/vapours.

Information about protection against



explosions and fires:

Pay attention to general rules of internal fire prevention.

Storage:

Keep containers tightly closed. Store in cool dry conditions.

Requirements to be met by storerooms and containers:

Store only in the original container. Not to be kept in containers made of aluminium, zinc, tin or alloys of those metals.

Information about storage in one common storage facility:

Do not store together with acids.

Further information about storage conditions:

Protect from frost.

Recommended storage temperature: 15 – 60 °C.

8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with critical values that

require monitoring at 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 that were valid during the compilation were used as basis.

Personal protective equipment

General protective and hygienic measures:

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Keep away from food, beverages and fodder. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.

Breathing equipment:

In case of dizzying-dust breathing protection is required.

Recommended filter device for short

term use: Filter P 2. Take care of limitations and rules for the use of breathing protection equipment (BGR 190).

Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Check the permeability prior to each renewed use of the glove.

Material of gloves: Butyl rubber, BR. Nitrile rubber, NBR. 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. Change gloves if notice sign of disenchantment.

Eye protection: Tightly sealed safety glasses.

Body protection: Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

9.0 PHYSICAL AND CHEMICAL PROPERTIES



General information

Form: Fluid.
Colour: Colourless.
Smell: Odourless.

Change in condition

Melting point/Melting range: ~ - 3 °C.
Boiling point/Boiling range: ~ 100 °C.
Flash point: Product is non-flammable nor potentially explosive.
Density at 20 °C: ~ 1,35 g/cm³.
Solubility in / Miscibility with Water: Fully miscible.
pH-value (10 g/l) at 20 °C: < 11,45.

Viscosity

dynamic at 20 °C: 20 – 400 mPas.

10.0 STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

Materials to be avoided:

Aluminium, zinc and other light metals. Acids.

Dangerous reactions:

Reacts with acids. Reacts with zinc, tin, aluminium and light alloys forming readily flammable hydrogen.

Dangerous products of decomposition:

Hydrogen.

Additional information:

The solution reacts with airborne carbon dioxide forming sodium carbonate or sodium hydrogen carbonate and silicic acid.

11.0 TOXICOLOGICAL INFORMATION

Acute toxicity

LD/LC₅₀ values that are relevant for

classification:

LD₅₀ (oral, rat): > 2.000 mg/kg.

Primary irritant effect

on the skin:

Slight irritant, but not sufficient to trigger an EC label.

on the eye:

Slight irritant, but not sufficient to trigger an EC label.

Sensitization:

No sensitizing effect known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines

for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information we have to hand.

12.0 ECOLOGICAL INFORMATION

Information about elimination



(persistence and degradability):	Inorganic product: not biodegradable.
Behaviour in environmental systems: - -	
Mobility and bioaccumulation potential:	No bioaccumulation.
Ecotoxicological effects:	- -
Aquatic toxicity:	Fish (Brachydanio rerio) LC ₅₀ /96 h: 3.185 mg/l.
Invertebrates (Daphnia magna):	EC ₅₀ /48 h: 4.857 mg/l.
Bacteria (Pseudomonas putida):	EC ₀ /48 h: > 1.000 mg/l.
Remark:	Harmful effect on fish, plankton and other waterorganism by pH shift possible.
Other information:	Product is a base. It must be specially treated before discharging to drains.
General notes:	Do not allow to enter drainage system, surface or ground water. Water hazard class I (Assessment by list): slightly hazardous for water.

13.0 DISPOSAL CONSIDERATIONS

Product

Recommendation:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system. A used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal, e.g. neutralisation.
Waste disposal key number:	Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application – related. The valid waste code number of the application can be obtained from the European waste catalogue.

Uncleaned packagings

Recommendation:	
Rented packaging:	After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers:	After complete emptying and cleaning, send to be reconditioned or recycled.
Recommended cleaning agent:	Water, if necessary with cleaning agent.

14.0 TRANSPORT REGULATIONS

Land transport ADR/RID (cross-border/domestic)

ADR/RID-GGVS/E Class:	- -
Transport/Additional information:	Not dangerous according to the above specifications.

15.0 REGULATIONS

Designation according to EC



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guidelines:

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV). Observe the normal safety regulations when handling chemicals.

National regulations

Water hazard class:

Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.

16.0 OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing date specification sheet:

See item 1 : Informing department.