

21-110 Wash Solution

## Section 1 Identification

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### 1.1 Product Identifier

**Product Name** Wash Solution  
**Part Number** 21-110

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

**Use** For laboratory use only. See product literature for details.

### 1.3 Details of the supplier of the safety data sheet

<b>Manufacturer</b>	<b>EC REP Address</b>
Phoenix Diagnostics, Inc. 8 Tech Circle Natick, MA U.S.A. Tel: 500-655-8310	Günter Keul GmbH Von-Langen-Weg 10 48565 Steinfurt, Germany

**E-mail address:** sales@phoenixdiagnostics.com

### 1.4 Emergency telephone number

**Telephone number** 508-655-8310

## Section 2 Hazards Identification

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### 2.1 Classification of Substance or Mixture

**Product Description** In vitro diagnostic reagent.  
For full text of R- phrases: see Section 16.  
Pale Straw; Clear; Liquid; Mild odor

#### **Classification according to EC 1272/2008 (CLP/GHS)**

Skin Corrosion Category 1  
Eye Damage Category 1

#### **Classification according to EC Directives 1999/45/EC and 67/548/EEC**

C;R34

#### **Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**

Skin Corrosion Category 1  
Eye Damage Category 1

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**2.2 Label Elements**

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

**Hazardous Ingredients**

Sodium Hydroxide  
 Genapol X080  
 Sulfonic acids, C14-C17-sec-alkane, sodium salts

**Pictogram**

**Signal Word**

DANGER

**Hazard Statements**

H314 Causes severe skin burns and eye damage.

**Precautionary Statements**

P280 Wear protective gloves, protective clothing and eye/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations Product label will display most significant precautionary statements.

**Section 3 Composition and Information on Ingredients**

3.2 Mixtures		Hazard Classification of Pure Ingredients			
Hazardous Ingredients:		EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Chemical Name	% by wt.				
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS # 97489-15-1 EINECS # 307-055-2 Index # Not available	1 - 5	Xn;R22-38-41	Acute Tox. Oral 4 Eye Dam. 1 Skin Irrit. 2 H302; H315; H318	Acute Tox. Oral 4 Eye Dam. 1 Skin Irrit. 2 H302; H315; H318	
Sodium Hydroxide CAS # 1310-73-2 EINECS # 215-185-5 Index # 011-002-00-6	1 - 2	C;R 35	Eye Dam. 1 Skin Corr. 1A H314; H318	Eye Dam. 1 Skin Corr. 1A H314; H318	



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

**Spill and Leak Procedures**      Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

**Section 7 Handling and Storage**

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**7.1 Precautions for safe handling**      Use good laboratory procedures; avoid eye and skin contact.

**7.2 Conditions for safe storage, including any incompatibilities**

Store at 8 to 30°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

**7.3 Specific end uses**      No further relevant information available.

**Section 8 Exposure Controls and Personal Protection**

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**8.1 Control Parameters**

**Exposure Limits**

**US OSHA**

Sodium Hydroxide      2 mg/m3 TWA  
CAS # 1310-73-2

**ACGIH**

Sodium Hydroxide      2 mg/m3 Ceiling  
CAS # 1310-73-2

**DFG MAK**

None established

**IRELAND**

Sodium Hydroxide      2 mg/m3 STEL  
CAS # 1310-73-2

**IOELVs**

None established

**NIOSH**

Sodium Hydroxide      10 mg/m3 IDLH  
CAS # 1310-73-2

**Japan**

None established

**8.2 Exposure Controls**

**Engineering Controls**      No special engineering controls are required. Use with good general ventilation.

**Eye Protection**      Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

**Skin Protection**      Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

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**Respiratory Protection**

contact.  
Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

## Section 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1.0 @20°C
<b>Color</b>	Pale Straw	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Fully miscible
<b>Odor</b>	Mild odor	<b>Organic</b>	Not determined
<b>pH</b>	13.1	<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Auto-ignition Temp.</b>	Product is not self-igniting
<b>Boiling Point</b>	Similar to water, approximately 100°C	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Similar to water, approximately 23 hPa
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammability Limits</b>	Not applicable	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not applicable
<b>Odor Threshold</b>	Not applicable		

## Section 10 Stability and Reactivity

### 10.1 Reactivity

No further relevant information available.

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- 10.2 Chemical Stability** The product is stable in accordance with recommended storage conditions.
- 10.3 Possibility of hazardous reactions**  
No further relevant information available.
- 10.4 Conditions to Avoid**  
Avoid exposure to heat and direct sunlight.  
To maintain product performance keep away from strong acids, strong bases, strong oxidizers.
- 10.5 Incompatible materials** No further relevant information available.
- 10.6 Hazardous Decomposition Products**  
No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## Section 11 Toxicological Information

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### 11.1 Information on toxicological effects Toxicity

#### Data for Hazardous Ingredients

Sodium Hydroxide                      Dermal LD50 Rabbit 1350 mg/kg  
CAS # 1310-73-2

**Primary Routes of Exposure**                      Eye contact, ingestion, inhalation, and skin contact.

**Skin Corrosion/Irritation**                      Contact may cause severe skin burns.

**Serious eye damage/eye irritation**                      Contact may cause serious eye damage.

**Carcinogenicity**  
No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

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## Section 12 Ecological Information

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### 12.1 Ecotoxicity

#### Fresh Water Species

Sodium Hydroxide  
CAS # 1310-73-2

96 h LC50 *Oncorhynchus mykiss*: 45.4 mg/L (static)

#### Water Flea

No information available.

### 12.2 Other Adverse Effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

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## Section 13 Disposal Considerations

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### 13.1 Waste treatment methods

#### Product Waste Disposal

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

### 13.2 Additional information

Suggested European waste catalogue 18 01 06\* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

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## Section 14 Transport Information

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Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

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### US Federal and State Regulations

<b>SARA 313</b>	No ingredients listed.
<b>CERCLA RG's, 40 CFR 302.4</b>	Sodium Hydroxide is listed.
<b>California Proposition 65</b>	No ingredients listed.
<b>Massachusetts MSL</b>	Sodium Hydroxide is listed. Sodium Sulfate is listed.
<b>New Jersey RTK List</b>	Sodium Hydroxide is listed.
<b>Pennsylvania RTK</b>	Sodium hydroxide is listed. Sodium Sulfate is listed.

### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### **According to EC Directives (1999/45/EC and 67/548 EEC)**

Corrosive

C



#### **Risk and Safety Phrases**

R34 Causes burns.  
 S20 When using do not eat or drink.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
 S60 This material and/or its container must be disposed of as hazardous waste.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately.  
 S23 Do not breathe vapor.

### Canada

**WHMIS Classification:** This product is exempt from WHMIS label and SDS requirements.

**PIN** 1824

#### **Ingredients on Ingredient Disclosure List**

Sodium Hydroxide

#### **Ingredients with unknown toxicological properties**

Product is exempt

**Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out.



**Section 16 Other Information**

<b>Phoenix Diagnostics Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 3</b> <b>Reactivity with Water: 0</b> <b>Contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision Changes**

Updated to GHS.

**Hazard Class, hazard statements and risk phrase description from section 3**

C - Corrosive  
 Xn - Harmful  
 R 35 Causes severe burns.  
 R22 Harmful if swallowed.  
 R38 Irritating to skin.  
 R41 Risk of serious damage to eyes.  
 Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4  
 Eye Dam. 1 - Eye Damage Category 1  
 Aquatic Longterm 3 - Aquatic Hazard Long term, Category 3  
 Skin Corr. 1A - Skin Corrosion Category 1A  
 Skin Irrit. 2 - Skin Irritation Category 2  
 H302 - Harmful if swallowed.  
 H314 - Causes severe skin burns and eye damage.  
 H315 - Causes skin irritation.  
 H318 - Causes serious eye damage.  
 H412 - Harmful to aquatic life with long lasting effects.