

SAFETY DATA SHEET

DATE OF COMPILATION: 26.10.2018

REVISION: -

VERSION NUMBER: 1.0

Safety data sheet in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Trade name: DRAIN CLEANER "Königliche Wäsche" HOT

Designation: Drain cleaner on the basis of sodium hydroxide.

Contains: Sodium hydroxide.

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Consumer uses - Drain cleaner for cleaning water pipes.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Manufacturer: PJ Chemikalien GmbH

Address: Westhafenstraße 1, 13353 Berlin

Telephone: +49 30 21 96 60 38; +48 034 729 70 38
www..pj-chemikalien.de

E-mail address for a person responsible for the SDS: info@pj-chemikalien.de

1.4. EMERGENCY TELEPHONE NUMBER +49 30 21 96 60 38 - PJ Chemikalien GmbH

SECTION 2 : HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The mixture is classified according to REGULATION (EC) No 1272/2008 as:

Skin Corr. 1A – Skin Corrosion of category 1 with hazard statement:
H314 - Causes severe skin burns and eye damage.

Eye Dam. 1 - Eye Damage of category 1 with hazard statement:
H318 Causes serious eye damage.

Met. Corr. 1 - Metal Corrosion of category 1 with hazard statement:
H290 - May be corrosive to metals.

2.2. LABEL ELEMENTS

Hazard pictogram:

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Signal word: **Danger**

Hazard statements:

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Precautionary Statements:

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container to pass to the person entitled to the disposal of waste or stored in a place designated by the municipality.

Contains: Sodium hydroxide.

2.3. OTHER HAZARDS

The ingredients of mixture do not meet the criteria for PBT and vPvB.

The pH of the mixture >11; if released it may cause alkalizing of surface and groundwater.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

not applicable.

3.2. MIXTURES

Hazard substances and substances for which there are Community workplace exposure limits

Substance name	Concentration (% m/m)	Number CAS	Number WE	Number registration	Classification in accordance with Directive (WE) nr 1272/2008
Sodium hydroxide	50 - 80	1310-73-2	215-185-5	01-2119457892-27-xxxx	Skin Corr. 1A, H314 Met. Corr. 1, H290

Full texts of hazard statements is listed in section 16.

SECTION 4 : FIRST AID MEASURES

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4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation:

- not an inhalation hazard under normal conditions of use;
- injured person move **to fresh air**;
- if **breathing is difficult** ensure airways are clear and have a qualified person **give oxygen** through a face mask;
- if **victim has stopped breathing** begin artificial respiration;
- **seek medical attention immediately.**

Eye:

- **immediately flush with plenty of water for at least 10-15 minutes with the eyelids held wide open, avoid strong stream of water, which can cause cornea injury;**
- do not use any medicines before getting medical attention;
- remove any contact lenses;
- **seek medical attention immediately.**

Skin:

- **remove all contaminated clothing;**
- **immediately flush with plenty of water for 15 minutes;**
- **do not use neutralizing (acidic) cleaning agents;**
- **put a sterile dressing on the burn;**
- **seek medical advice immediately.**

Ingestion:

- **rinse mouth with plenty of water;**
- **do not induce vomiting (may lead to perforation);**
- if vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration);
- **do not allow a neutralization agent to be drunk;**
- **seek medical attention immediately.**

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

- inhalation – **irritation to gastro-intestinal or respiratory tract**, characterized by **burning, sneezing and coughing**; severe over-exposure can produce **lung damage, choking, unconsciousness or death.**
- skin contact - product **is corrosive, causes severe skin burns**, which can result in tissue destruction; symptoms – itching, scaling, reddening.
- eye contact – product **is corrosive, causes permanent eye damage and blindness**; symptoms – redness, watering, itching.
- ingestion – product **is corrosive, causes severe irritation and chemical burns to the gastro-intestinal tract**; symptoms- vomiting, diarrhoea.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Mixture is alkaline, in case of accident or unwellness seek medical advice immediately.

SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: suitable for burning materials, extinguishing powder, carbon dioxide, foam.

Unsuitable extinguishing media: there are no contradictions for extinguishing agents.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Product is not flammable. **Contact with water may generate enough heat to ignite adjacent combustible materials. Reactions with light metals releases flammable and explosive hydrogen gas.**

5.3. ADVICE FOR FIREFIGHTERS

Containers exposed to fire or high temperatures may explode. They should be cooled with water from a safe distance and if possible removed from the danger area.

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Wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

For non-emergency personnel:

- avoid contact with skin and eyes;
- avoid generation of dust;
- avoid inhalation of fine dust; use ventilation, local exhaust, or respiratory protection with approved filter (P2);
- wear chemical resistant protective gloves and suits;
- wear tightly fitting chemical resistant safety goggles.

For emergency responders:

Suitable fabric for personal protective clothing:

- appropriate: nitrile rubber, butyl rubber, PCV, polychloroprene (thickness- 0,5-0,6mm, breakthrough time: >480 minutes);
- not appropriate: no data.

6.2. **ENVIRONMENTAL PRECAUTIONS**

- keep away from drains, surface- and ground-water and soil.
- contact with local authority.

6.3. **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

- avoid contact with water;
- take up mechanically, placing in appropriate containers for disposal;
- the residues dilute with water, neutralize with a dilute solution of acetic acid or hydrochloric acid, placing in appropriate containers for disposal;
- wash the contaminated surface with plenty of water;
- dispose of according to the local regulations.

6.4. **REFERENCE TO OTHER SECTIONS**

Information regarding safe handling – see section 7.

SECTION 7: HANDLING AND STORAGE

7.1. **PRECAUTIONS FOR SAFE HANDLING**

- handle in accordance with good manufacturing practices and personal hygiene;
- avoid contact with skin and eyes;
- avoid generation of dust;
- avoid inhalation of fine dust;
- wash hands after use;
- wash any exposed skin immediately after any chemical contact;
- not to eat, drink and smoke in work areas;
- in case of insufficient ventilation wear suitable respiratory equipment;
- remove contaminated clothing and protective equipment before entering eating areas;
- wear protective equipment.

7.2. **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

- store in a cool, dry (humidity <65%, temperature 0-35°C), well ventilated area;
- storage in **original containers**;
- keep containers upright and tightly closed;
- keep away from water, sunlight, source of heat and source of fire;
- keep away from food;
- keep away from acids;
- avoid contact with zinc, aluminium, ammonium salts.
- do not smoke in store;

7.3. **SPECIFIC END USE(S)**

No data available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Substances with national occupational exposure limit:

Substance name and CAS number	OEL- TWA [mg/m³]	STEL [mg/m³]	Country
Sodium hydroxide [1310-73-2]	0,5	1	PL
Sodium hydroxide [1310-73-2]	1	2	CZ

[PL] Regulation of the Minister of Labour and Social Policy of 06 June 2014 on the Maximum Admissible Concentrations and Intensities of Harmful to Health Agents in the Working Environment;

[CS] GOVERNMENT REGULATION of 20 December 2012 amending Regulation no. 361/2007 Coll., Laying down the conditions of health protection at work, as amended;

The mixture does not contain substances with the national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU;

The mixture does not contain substances with the national occupational exposure limit values that correspond to Union limit values in accordance with Directive 2004/37/EC, including any notations as referred to in Article 2(3) of Decision 2014/113/EU;

The mixture does not contain substances with the national biological limit values that correspond to Union biological limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Decision 2014/113/EU;

8.2. EXPOSURE CONTROLS

Personal protective equipment:

Respiratory protection:

- is not required during normal operations in a workplace; in case of dust wear respiratory protection with filter P2 according to EN 143.

Eye protection:

wear tightly fitting chemical resistant safety goggles.

Hand protection:

- **wear chemical resistant protective gloves - nitrile rubber, butyl rubber, PCV, polychloroprene (thickness- 0,5-0,6mm, breakthrough time: >480 minutes);**

Skin protection:

- **wear chemical resistant protective suits – rubber.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Physical state	solid, granules
Colour:	white - grey
Odour :	odourless
Odour threshold:	not determined
pH :	12,5 – 14 (5% solution)
Melting point/freezing point:	not determined for mixture, 318 - 322°C for sodium hydroxide
Initial boiling point and boiling range:	not determined for mixture, 1388 - 1390°C for sodium hydroxide
Flash point:	not determined
Evaporation rate:	not determined

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Flammability (solid, gas):	not combustible
Upper/lower flammability or explosive limits:	not applicable
Vapour pressure:	not determined
Vapour density:	not determined
Relative density:	not determined
Solubility(ies):	soluble in water
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not applicable
Decomposition temperature:	no data for product
Viscosity:	not applicable
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2. **OTHER INFORMATION**

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. **REACTIVITY**

The reactivity hazards of mixture has not been tested.

Reactivity of Sodium hydroxide CAS [1310-73-2]:

Very reactive. Reactions with acids are exothermic and violent. Reactions with light metals (zinc, aluminium, tin) lead to escape of hydrogen, explosion hazard.

10.2. **CHEMICAL STABILITY**

The chemical stability of mixture has not been tested.

Stability of Sodium hydroxide CAS [1310-73-2]:

The substance is very hygroscopic, unstable under normal conditions, absorbs moisture and carbon dioxide from air.

10.3. **POSSIBILITY OF HAZARDOUS REACTIONS**

The mixture has not been tested – no available data.

Possibility of hazardous reactions for Sodium hydroxide CAS [1310-73-2]:

Reactions with light metals (zinc, aluminium, tin) lead to escape of hydrogen, explosion hazard.

10.4. **CONDITIONS TO AVOID**

Keep away from humidity, high temperatures; keep away from source of heat and source of fire.

10.5. **INCOMPATIBLE MATERIALS**

Avoid water, strong mineral acids, light metals, ammonium compounds, organic compounds, combustible materials.

10.6. **HAZARDOUS DECOMPOSITION PRODUCTS**

Sodium oxide, hydrogen, nitric oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity:

The mixture has not been tested. The mixture is classified as corrosive - **causes severe skin burns and eye damage.** According to Annex XIII of REACH Regulation the acute toxicity tests are not applicable.

Acute toxicity of Sodium hydroxide CAS No [1310-73-2]:

LDL0 (oral, rabbit): 500mg/kg.

Skin corrosion/irritation:

The mixture has not been tested. Based on the available data of the ingredients the mixture is classified as **corrosive: causes severe skin burns. Product contains: Sodium hydroxide.**

Corrosion effect of Sodium hydroxide CAS No [1310-73-2]:

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The harmonized classification according Annex VI of Regulation (EC) No 1272/2008 (CLP):

Skin Corr. 1A; H314: $C \geq 5 \%$
Skin Corr. 1B; H314: $2 \% \leq C < 5 \%$
Skin Irrit. 2; H315: $0,5 \% \leq C < 2 \%$
Eye Irrit. 2; H319: $0,5 \% \leq C < 2 \%$

Concentration <0,95%w/w may cause slight irritation of skin.

Concentration 1%w/w may cause strong irritation of skin.

Concentration 5%w/w causes severe skin burns.

Serious eye damage/eye irritation:

The mixture has not been tested. Based on the available data of the ingredients the mixture is classified as **causes eye damage. Product contains: Sodium hydroxide.**

Serious eye damage effect of Sodium hydroxide CAS No [1310-73-2]:

The harmonized classification according Annex VI of Regulation (EC) No 1272/2008 (CLP):

Skin Corr. 1A; H314: $C \geq 5 \%$
Skin Corr. 1B; H314: $2 \% \leq C < 5 \%$
Skin Irrit. 2; H315: $0,5 \% \leq C < 2 \%$
Eye Irrit. 2; H319: $0,5 \% \leq C < 2 \%$
Causes serious eye damage, risk of irreversible damage of eyes.

Respiratory or skin sensitization:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Respiratory or skin sensitization of Sodium hydroxide CAS No [1310-73-2]

No available data

Mutagenicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Mutagenicity effect of Sodium hydroxide CAS No [1310-73-2]

No available data.

Carcinogenicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Carcinogenicity of Sodium hydroxide CAS No [1310-73-2]

No available data.

Reproductive toxicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Reproductive toxicity of Sodium hydroxide CAS No [1310-73-2]

No available data.

STOT – single exposure:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

STOT – repeated exposure:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Aspiration hazard:

Not applicable – the mixture is solid.

Routes of exposure

The mixture has not been tested – no available data.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

The mixture has not been tested - no available data. Based on the available data of the ingredients the classification criteria are not met.

The pH of the mixture >11; if released it may cause alkalizing of surface and groundwater.

Acute toxicity of Sodium hydroxide CAS No [1310-73-2] :

No available data.

12.2. PERSISTENCE AND DEGRADABILITY

The mixture has not been tested - no available data.

Persistence and degradability of Sodium hydroxide CAS No [1310-73-2] :

Substance is inorganic and disassociate in water.

12.3. BIOACCUMULATIVE POTENTIAL

The mixture has not been tested - no available data.

Bioaccumulative potential of Sodium hydroxide CAS No [1310-73-2]

No available data.

12.4. MOBILITY IN SOIL

The mixture has not been tested - no available data.

Mobility in soil of Sodium hydroxide CAS No [1310-73-2] :

It may cause alkalizing of soil.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

The mixture has not been tested - no available data.

12.6. OTHER ADVERSE EFFECTS

The mixture has not been tested - no available data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

- dispose of according to local and national regulations;
- avoid disposing into drainage systems and into the environment;
- contaminated packaging dispose in the same way as the product itself;
- non-contaminated packages may be recycled.

SECTION 14: TRANSPORT INFORMATION

Road transport (ADR/RID):

- 14.1. UN NUMBER : UN 2921 (Unit package 0,25kg; 0,5kg; 0,2kg; 0,4kg transport in accordance with LQ 23).
- 14.2. UN PROPER SHIPPING NAME: CORROSIVE SOLID, FLAMMABLE n.o.s. (contains SODIUM HYDROXIDE and SODIUM NITRATE).
- 14.3. TRANSPORT HAZARD CLASS(ES): 8.
- 14.4. PACKING GROUP: II.
- 14.5. ENVIRONMENTAL HAZARDS:
The mixture has not been tested - no available data.
- 14.6. SPECIAL PRECAUTIONS FOR USER
See sections 6 to 8 of this Safety Data Sheet.
- 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

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Not applicable.

Sea transport (IMDG):

- 14.1. **UN NUMBER:** **UN 2921** (Unit package 0,25kg, 0,5kg, 0,2kg, 04kg transport LQ in accordance with LQ 23).
- 14.2. **UN PROPER SHIPPING NAME:** **CORROSIVE SOLID, FLAMMABLE n.o.s. (contains SODIUM HYDROXIDE and SODIUM NITRATE).**
- Kod EmS: F-A, S-G
- 14.3. **TRANSPORT HAZARD CLASS(ES):** **8.**
- 14.4. **PACKING GROUP:** **II.**
- 14.5. **ENVIRONMENTAL HAZARDS:** **No.**
- 14.6. **SPECIAL PRECAUTIONS FOR USER**
See sections 6 to 8 of this Safety Data Sheet.
- 14.7. **TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE**
Not applicable.

SECTION 15: REGULATORY INFORMATION

The mixture is not subject to *Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer* (3), *Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC* (3) or *Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals*

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

15.2. CHEMICAL SAFETY ASSESSMENT

The chemical safety assessment has not been carried out for the mixture.

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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet:

PBT – *Persistent, Bioaccumulative, Toxic.*
vPvB – *Very Persistent and very Bioaccumulative.*
LD50 – *ang. Lethal Dose, 50%*
LC50 – *ang. Lethal Concentration, 50%*
EC50 – *ang. half maximal effective concentration, 50%*
OEL - *Occupational Exposure Limit*
TWA - *Eight – hour Time Weighted Average*
STEL – *Short Term Exposure Limit*

List of relevant hazard statements, safety phrases or precautionary statements which are not written out in full under Sections 2 to 15:

Skin Corr. 1A Skin corrosion of category 1A.
Met. Corr. 1 Substance or mixture corrosive to metals of category 1.

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

The information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. This document is neither a quality description of the product nor a guarantee of particular properties. The information are to be treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change.