

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

1.1 Product identifier

Trade name: Special Cleaner for Coffee Brewers

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

General use: Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company name: IBEDA-CHEMIE Klaus P. Christ GmbH

Street/POB-No.: Am Eichelgärtchen 32

Postal Code, city: 56283 Halsenbach

Germany

E-mail: info@ibeda-chemie.com

Telephone: +49 (0)6747-9501-0

Telefax: +49 (0)6747-9501-11

Dept. responsible for information:

Herr Dohmann, Telephone: +49 (0)6747-9501-16 (Only available during office hours.)

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,

Telephone: +49 551-19240

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Met. Corr. 1; H290 May be corrosive to metals.

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

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Precautionary statements: P102	Keep out of reach of children.
P234	Keep only in original packaging.
P260	Do not breathe vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.

Special labelling

Text for labelling: Contains Sodium hydroxide.
 Labelling for contents according to regulation (EC) No 648/2004, annex VII:
 Contains
 - less than 5% anionic surfactants.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119457892-27-xxxx EC No. 215-185-5 CAS 1310-73-2	Sodium hydroxide	< 50 %	Met. Corr. 1; H290. Skin Corr. 1A; H314.
EC No. 500-223-8 CAS 68585-34-2	Sodium lauryl-myristylether(3) sulfate	< 5 %	Skin Irrit. 2; H315. Eye Dam. 1; H318.

Full text of H- and EUH-statements: see section 16.

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex VII:
 Contains
 - less than 5% anionic surfactants.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation:	Provide fresh air. Seek medical attention.
Following skin contact:	After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Cover with sterile dressing material to protect against infection. Seek medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Risk of perforation!
Do not try to neutralize. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation:
Burns of mucous membranes, cough, shortage of breath, pulmonary oedema.
In case of ingestion: Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract.
Risk of perforation in the oesophagus and stomach.
After contact with skin: burns, necrosis
After eye contact: Danger of loss of sight

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours.
Hydrogen may form upon contact with light metals (danger of explosion!).

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: 2R

Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the substance. Do not breathe vapour/aerosol. Wear appropriate protective equipment. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water.

Additional information:

Render harmless: Neutralize with dilute sulphuric acid.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid contact with skin, eyes, and clothing.
Do not breathe vapour/aerosol. Wear appropriate protective equipment.
When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep only in the original container. Protect against cooling under 15 °C. Keep away from air.

Do not use aluminium, tin, or zinc containers.

Hints on joint storage: Do not store together with acids. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1310-73-2	Sodium hydroxide	Great Britain: WEL-STEL Ireland: 15 minutes	2 mg/m ³ 2 mg/m ³

8.2 Exposure controls

Provide good ventilation. Protect against cooling under 15 °C.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Use a breathing protection against vapours/aerosol.
Use combination filter type A-P2 according to EN 14387.

Hand protection: Protective gloves according to EN 374.
Glove material: Nitrile rubber (0.11 mm).
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Protective work clothing, chemical resistant safety shoes.

General protection and hygiene measures:

Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing.

Do not breathe vapour/aerosol. Wear appropriate protective equipment.

Safety shower and eye wash station should be easily accessible to the work area.

After work, wash hands and face.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Form: liquid
Colour: colourless, clear

Odour:	odourless
Odour threshold:	No data available
pH value:	approx. 14 g/mL
Melting point/freezing point:	10 °C
Initial boiling point and boiling range:	> 100 °C
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	3 - 5 hPa
Vapour density:	No data available
Density:	at 20 °C: 1.40 - 1.45 g/mL
Water solubility:	infinitely soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	40 - 45 mPa*s
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

May be corrosive to metals.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Contact with ammonium compounds liberates ammonia.
Hydrogen may form upon contact with light metals (danger of explosion!).
Reacts violently with acids.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Acids, ammonium compounds, light metals.

10.6 Hazardous decomposition products

Sodium compounds, carbon monoxide and carbon dioxide
Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Corr. 1; H314 = Causes severe skin burns and eye damage.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Symptoms

In case of inhalation:
Burns of mucous membranes, cough, shortage of breath, pulmonary oedema.

In case of ingestion: Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract.
Risk of perforation in the oesophagus and stomach.

After contact with skin: burns, necrosis

After eye contact: Danger of loss of sight

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.
Forms corrosive mixtures with water even if diluted.

Fish toxicity:
LC50 *Oncorhynchus mykiss*: 45.4 mg/L/ 96 h.
LC50 *Lepomis macrochirus* (bluegill): 99 mg/L/ 48 h.

Daphnia toxicity:
EC50 *Daphnia magna* (Big water flea): 76 mg/L/ 24 h.

In case of spills of large quantities: Product will cause death of fish in rivers and lakes.

12.2 Persistence and degradability

Further details: No data available

Effects in sewage plants: Does not cause biological oxygen deficit. The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 06 02 04* = Sodium and potassium hydroxide, solution
* = Evidence for disposal must be provided.

Recommendation: Dilute with plenty of water. Dispose of waste according to applicable legislation.
Render harmless: Neutralize with dilute sulphuric acid.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.
Packaging which has been completely emptied and rinsed with water three times may be recycled.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 1824

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 1824, SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es)

ADR/RID: Class 8, Code: C5
IMDG: Class 8, Subrisk -
IATA-DGR: Class 8



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
II

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 80, UN number UN 1824
Hazard label:	8
Limited quantities:	1 L
EQ:	E2
Contaminated packaging - Instructions:	P001 IBC02
Special provisions for packing together:	MP15
Portable tanks - Instructions:	T7
Portable tanks - Special provisions:	TP2
Tank coding:	L4BN
Tunnel restriction code:	E

Sea transport (IMDG)

EmS:	F-A, S-B
Special provisions:	-
Limited quantities:	1 L
Excepted quantities:	E2
Contaminated packaging - Instructions:	P001
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP2
Stowage and handling:	Category A.
Segregation:	SG35
Properties and observations:	Colourless liquid. Corrosive to aluminium, zinc and tin. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.
Segregation group:	18

Air transport (IATA)

Hazard label:	Corrosive
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y840 - Max. Net Qty/Pkg. 0.5 L
Passenger and Cargo Aircraft:	Pack.Instr. 851 - Max. Net Qty/Pkg. 1 L
Cargo Aircraft only:	Pack.Instr. 855 - Max. Net Qty/Pkg. 30 L
Special provisions:	A3 A803
Emergency Response Guide-Code (ERG):	8L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Great Britain

Hazchem-Code:	2R
	No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

- H290 = May be corrosive to metals.
- H314 = Causes severe skin burns and eye damage.
- H315 = Causes skin irritation.
- H318 = Causes serious eye damage.

Reason of change: Changes in section 2: Labelling (P-phrases, ATP8)
Date of first version: 18/2/2005

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.