

Cleaner 14

Material number 1 8620

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

1.1 Product identifier

Trade name: Cleaner 14
As part of the kits 1 8620 XX XX XXX or Article No. 970 112
(The positions X code different packages.)

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

General use: Laboratory chemicals, Cleaning agent
For professional use only

1.3 Details of the supplier of the safety data sheet

Company name: DiaSys Diagnostic Systems GmbH
Street/POB-No.: Alte Strasse 9
Postal Code, city: 65558 Holzheim
WWW: <http://www.diasys.de>
E-mail: mail@diasys.de
Telephone: +49 (0) 6432-9146-0
Telefax: +49 (0) 6432-9146-32

Department responsible for information:
Corporate headquarters, Telephone: +49 (0) 6432-9146-0, Email: mail@diasys.de

1.4 Emergency telephone number

Infraserv, Telephone: +49 (0) 69-305-6418

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. 1B; H314 Causes severe skin burns and eye damage.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

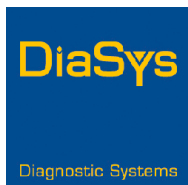
2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

Hazard statements: H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU)
No. 2015/830

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Precautionary statements:

- P280 Wear protective gloves/protective clothing/eye 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.
- P390 Absorb spillage to prevent material damage.

Special labelling

Text for labelling: Contains Sodium hydroxide.

2.3 Other hazards

No risks worthy of mention.

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 | 2 - 5 % | Met. Corr. 1; H290. Skin Corr. 1A; H314. |
| EC No. 231-668-3 CAS 7681-52-9 | Sodium hypochlorite, solution | < 0.5 % | Skin Corr. 1B; H314. Eye Dam. 1; H318. Aquatic Acute 1; H400 (M-factor = 10). Aquatic Chronic 1; H410 (M-factor = 1). (EUH031). |

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

Additional information: Contains polyethylene glycol: The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: First aider: Pay attention to self-protection!
If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.
- In case of inhalation: Provide fresh air. Seek medical attention.
- Following skin contact: Clean with plenty of water. If possible, also wash with polyethylene glycol 400. 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. Remove contact lenses, if present and easy to do. Continue rinsing.
Subsequently seek the immediate attention of an ophthalmologist.

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After swallowing: Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Risk of perforation!
Do not try to neutralize. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

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.

5.2 Special hazards arising from the substance or mixture

In case of strong heating/In case of fire may be liberated: Chlorine, sodium compounds, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Hazchem-Code: 2X

Use fine water spray to cool endangered containers.

Suppress gases/vapours/mists with water spray jet.

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 vapours. Wear appropriate protective equipment.

Provide adequate ventilation. Remove persons not involved upwind. Eliminate all ignition sources if safe to do so.

Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water 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. Final cleaning.

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: Wear appropriate protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapours.
Take off immediately all contaminated clothing and wash it before reuse. Provide adequate ventilation, and local exhaust as needed.
Wash hands and face thoroughly after handling. When using do not eat or drink. Work place should be equipped with a shower and an eye rinsing apparatus.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between + 2 °C and + 25 °C. Provide adequate ventilation. Protect from light.

Unsuitable materials: Aluminium, zinc, tin.

Hints on joint storage: Do not store together with ammonium compounds or acids.

7.3 Specific end use(s)

No information available.

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 | 2 mg/m ³ |
| | | Ireland: 15 minutes | 2 mg/m ³ |

8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use filter type (ABEK-P2/P3) according to EN 14387..

Hand protection: Protective gloves according to EN 374.
Glove material: nitrile rubber-Layer thickness: 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: Lab coat

General protection and hygiene measures:

Take off immediately all contaminated clothing and wash it before reuse. Do not breathe vapours. When using do not eat or drink.

Wash hands before breaks and after work. Do not get in eyes, on skin, or on clothing.

Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Appearance: | Physical state at 20 °C and 101.3 kPa: liquid Colour: colourless |
| Odour: | no characteristic odour |
| Odour threshold: | No data available |
| pH: | at 25 °C: 13.7 |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point/flash point range: | not combustible |
| Evaporation rate: | No data available |
| Flammability: | No data available |
| Explosion limits: | No data available |
| Vapour pressure: | No data available |
| Vapour density: | No data available |
| Density: | at 20 °C: 1.0854 g/mL |
| Water solubility: | at 25 °C: soluble |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity, kinematic: | No data available |
| 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

Corrosive against metals.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Reacts with ammonium compounds: Formation of ammonia.
Reacts violently with acids.

10.4 Conditions to avoid

Keep away from heat. Protect from light.
(Decomposition of Sodium hypochlorite: Formation of oxygen).

10.5 Incompatible materials

Acids (Formation of chlorine), light metals (Formation of hydrogen), reducing agent and oxidizing agents (Formation of chlorine, oxygen).

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10.6 Hazardous decomposition products

Thermal decomposition: Chlorine, hydrogen
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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Corr. 1B; 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: Mucous membrane irritation, cough and shortage of breath, burns.

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

After eye contact: Burns. Danger of loss of sight!

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Harmful effects on water organisms by modification of pH-value.

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

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

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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: 16 05 06* = Laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals.

* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.
Small quantities: Reducing agent: Sodium sulphite or Sodium thiosulphate.
afterwards neutralization with hydrochloric acid (diluted) up to pH 6-8.

Package

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 3266

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Sodium hydroxide and Sodium hypochlorite-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



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14.6 Special precautions for user

Land transport (ADR/RID)

| | |
|--|---|
| Warning board: | ADR/RID: Kemmler-number 80, UN number UN 3266 |
| Hazard label: | 8 |
| Special provisions: | 274 |
| Limited quantities: | 1 L |
| EQ: | E2 |
| Package - Instructions: | P001 IBC02 |
| Special provisions for packing together: | MP15 |
| Portable tanks - Instructions: | T11 |
| Portable tanks - Special provisions: | TP2 TP27 |
| Tank coding: | L4BN |
| Tunnel restriction code: | E |

Sea transport (IMDG)

| | |
|---------------------------------|---|
| EmS: | F-A, S-B |
| Special provisions: | 274 |
| Limited quantities: | 1 L |
| Excepted quantities: | E2 |
| Package - Instructions: | P001 |
| Package - Provisions: | - |
| IBC - Instructions: | IBC02 |
| IBC - Provisions: | - |
| Tank instructions - IMO: | - |
| Tank instructions - UN: | T11 |
| Tank instructions - Provisions: | TP2, TP27 |
| Stowage and handling: | Category B. SW2 |
| Segregation: | SG35 |
| Properties and observations: | Reacts violently with acids. Causes burns to skin, eyes and mucous membranes. |
| 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

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SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: 2X
No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:
Use restriction according to REACH annex XVII, no.: 3

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.
H318 = Causes serious eye damage.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
EUH031 = Contact with acids liberates toxic gas.

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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 2: Labelling

Date of first version: 6/3/2007

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.

