

Decontamination Clean

Material number 848 000 080

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: Decontamination Clean

1.2 Relevant identified uses of the substance or mixture and uses advised againstGeneral use: Cleaning agent.
Only for industrial users.**1.3 Details of the supplier of the safety data sheet**Company name: Bio-Rad Medical Diagnostics GmbH
Street/POB-No.: Industriestr. 1
Postal Code, city: 63303 Dreieich
Germany
WWW: www.medizinische-diagnostik-dreieich.de
E-mail: contact.bmd@bio-rad.com
Telephone: +49 (0)6103-3130-0
Telefax: +49 (0)6103-3130-646
Dept. responsible for information:
Produktmanagement Transfusion
Telephone: 06103 3130-611
Telefax: 06103 3130-724**1.4 Emergency telephone number**

GIZ-Nord, Germany, Telephone: +49 (0)551-19240

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

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

Classification according to Directive 67/548/EEC or 1999/45/EC

C; R34 Causes burns.

2.2 Label elements**Labelling (CLP)**Signal word: **Danger**

Hazard statements: H314 Causes severe skin burns and eye damage.



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Precautionary statements:

- P260 Do not breathe vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

- May be harmful if swallowed.
May be corrosive to metals.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Aqueous solution, alkaline. Product contains non-ionic surfactants.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 230-525-2 CAS 7173-51-5	Didecyldimethylammonium chloride	2.5 - 10 %	DSD/DPD: C; R 22, 34 CLP: Acute Tox. 4; H302. Skin Corr. 1B; H314.
EC No. 215-185-5 CAS 1310-73-2	Sodium hydroxide	< 2.5 %	DSD/DPD: C; R35. CLP: Met. Corr. 1; H290. Skin Corr. 1A; H314.
EC No. - CAS 69011-79-6	Oxoalcohol, ethoxylated	< 2.5 %	DSD/DPD: Xi; R36/38. CLP: Skin Irrit. 2; H315. Eye Irrit. 2; H319.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: First aider: Pay attention to self-protection! If victim is at risk of losing consciousness, position and transport on their side.
- In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Immediately get medical attention.
- Following skin contact: After contact with skin, wash immediately with plenty of water. Immediately get medical attention. Take off contaminated clothing and wash it before reuse.
- After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. Subsequently seek the immediate attention of an ophthalmologist.
- After swallowing: Rinse mouth and seek medical attention immediately. Do not induce vomiting. Risk of perforation in case of vomiting!. Never give anything by mouth to an unconscious person. In case of vomiting, position victim on their side.



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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:

The product itself does not burn. Extinguishing is to be in accordance with the surrounding fire. water fog, foam, extinguishing powder, carbon dioxide, Sand

Extinguishing media which must not be used for safety reasons:

High power water jet

5.2 Special hazards arising from the substance or mixture

Heating can release hazardous gases.

In the event of a fire, the following may be produced when the water evaporates: nitrogen oxides (NO_x), sodium compounds

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

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin and eyes.

Wear personal protection equipment. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Collect with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents, or sawdust) and place in closed containers for disposal. Thoroughly clean surrounding area.

6.4 Reference to other sections

Refer additionally to section 8 and 13.



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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. Wear protective equipment. Do not breathe vapours.

Precautions against fire and explosion:

Hazardous vapours may form during fires. Hydrogen may form upon contact with light metals (danger of explosion!).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place. Protect from light. Do not use aluminium, tin, or zinc containers.

Hints on joint storage:

Do not store together with strong acids and amphoteric metals. Keep away from food, drink and animal feedingstuffs.

Storage class:

8 B = Non-combustible corrosive substances

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

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

Use a breathing protection against vapours/aerosol.
Use filter type ABEK according to EN 14387.

Hand protection:

Protective gloves according to EN 374.
Glove material: Nitrile rubber, latex
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:

Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe vapour/aerosol. Avoid contact with skin, eyes, and clothing. Avoid the formation of aerosol. When using do not eat, drink, smoke, sniff. Clean skin thoroughly after working. Work place should be equipped with a shower and an eye rinsing apparatus. Take off contaminated clothing and wash it before reuse.



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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 Form: liquid Colour: blue
Odour:	odourless
Odour threshold:	no data available
pH value:	(Concentrate) <= 13
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	102 °C
Flash point/flash point range:	not applicable
Evaporation rate:	no data available
Flammability:	The product itself does not burn.
Explosion limits:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Density:	at 20 °C: 1.06 g/mL
Water solubility:	infinitely soluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	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

May be corrosive to metals.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

May react violently with the following products: strong acids.
Hydrogen may form upon contact with light metals (danger of explosion!).
With exposure to ammonium compounds, product will release ammonia.

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

metals, light metals, ammonium compounds, acids.



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10.6 Hazardous decomposition products

Hazardous vapours may form during fires.
nitrogen oxides (NO_x), Hydrogen, Ammonia, Carbon monoxide and carbon dioxide.

Thermal decomposition: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Based on available data, the classification criteria are not met.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation, eye damage/irritation: Skin Corr. 1B; H314 = Causes severe skin burns and eye damage.
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.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

12.2. Persistence and degradability

Further details: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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



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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: 07 06 01* = Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

* = Evidence for disposal must be provided.

Recommendation: Do not release undiluted and unneutralized to the sewer. Dispose of waste according to applicable legislation.

Contaminated 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: 1824

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

ADR/RID: Class 8, Code: C5

IMDG: Class 8, Subrisk -

IATA: Class 8



14.4 Packing group

ADR/RID, IMDG, IATA: III

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 1824
Hazard label: 8
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 IBC03 LP01 R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special provisions: TP1
Tank coding: L4BN
Tunnel restriction code: E

Sea transport (IMDG)

EmS: F-A, S-B
Special provisions: 223
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: -
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1
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: none

Air transport (IATA)

Hazard: Corrosive
EQ: E1
Passenger Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special Provisioning: A3 A803
ERG: 8L

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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



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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.
- H302 = Harmful if swallowed.
- H314 = Causes severe skin burns and eye damage.
- H315 = Causes skin irritation.
- H319 = Causes serious eye irritation.

Wording of the R-phrases under section 2 and 3:

- R 22 = Harmful if swallowed.
- R 34 = Causes burns.
- R 35 = Causes severe burns.
- R 36/38 = Irritating to eyes and skin.

Date of first version: 18/2/2015

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.