



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

## Decontamination Clean

Material number 186014

Revision date: 30/5/2017

Version: 3

Language: en-CA,US

Date of print: 13/12/2017

Page: 1 of 9

## 1. Product and company identification

### Product identifier

Trade name: Decontamination Clean  
This safety data sheet pertains to the following products:  
848 000 080 Decontamination Clean

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

General use: Cleaning agent.  
Only for industrial users.

### 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](http://www.medizinische-diagnostik-dreieich.de)  
E-mail: [contact.bmd@bio-rad.com](mailto: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

Additional information: Bio-Rad Laboratories (Canada) Ltd.  
Diagnostics Group  
2403 Guenette Street  
Montreal (Quebec) H4R 2E9  
Phone: (800) 361-1808  
FAX: (514) 334-0872

### Emergency phone number

GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240

## 2. Hazards identification

### Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid  
Form: liquid  
Color: blue  
Odor: odorless  
Classification: Skin Corrosion 1B;

Hazard symbols:



Signal word: **Danger**  
Hazard statements: Causes severe skin burns and eye damage.



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### Precautionary statements:

Do not breathe dusts or mists.  
Wash hands and face thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see 'First aid' on this label).  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

May be harmful if swallowed.  
May be corrosive to metals.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Aqueous solution, alkaline. Product contains nonionic surfactants.

### Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 7173-51-5	Didecyltrimethylammonium chloride	2.5 - 10 %	Acute Toxicity 4 (oral). Skin Corrosion 1B.
CAS 1310-73-2	Sodium hydroxide	< 2.5 %	Corrosive to Metals 1. Skin Corrosion 1A.
CAS 69011-79-6	Oxalcohol, ethoxylated	< 2.5 %	Skin Irritation 2. Eye Irritation 2A.

## 4. 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. 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 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.

### Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: No data available

Suitable extinguishing media:

The product itself does not burn. Extinguishing is to be in accordance with the surrounding fire. Water spray jet, foam, extinguishing powder, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

Full water jet

### Specific hazards arising from the chemical

Heating can release hazardous gases.

In the event of a fire, the following may be produced when the water evaporates: nitrogen oxides (NO<sub>x</sub>), sodium compounds

Protective equipment and precautions for firefighters:

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

Additional information:

Do not allow water used to extinguish fire to enter drains, ground or waterways.

## 6. Accidental release measures

Personal precautions: Provide adequate ventilation. Do not breathe vapors. Avoid contact with skin and eyes. Wear personal protection equipment. Keep unprotected people away.

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).

Methods for clean-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.

## 7. Handling and storage

### Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Wear appropriate protective equipment. Do not breathe vapors.

Precautions against fire and explosion:

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



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### Storage

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.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1310-73-2	Sodium hydroxide	ACGIH: Ceiling	2 mg/m <sup>3</sup>
		Canada, Alberta: OEL Ceiling	2 mg/m <sup>3</sup>
		Canada, BC: OEL Ceiling	2 mg/m <sup>3</sup>
		Canada, Québec: Plafond	2 mg/m <sup>3</sup>
		NIOSH: Ceiling	2 mg/m <sup>3</sup>
		USA: OSHA: TWA	2 mg/m <sup>3</sup>

### Engineering controls

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

See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile rubber, latex  
Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Use a breathing protection against vapors/aerosol.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Do not breathe vapor or spray. 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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:

Physical state at 20 °C and 101.3 kPa: liquid

Form: liquid

Color: blue



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Odor:	odorless
Odor threshold:	No data available
pH value:	(Concentrate) $\leq 13$
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
Vapor pressure:	No data available
Vapor 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
Additional information:	No data available

## 10. Stability and reactivity

Reactivity:	May be corrosive to metals.
Chemical stability:	Stable under recommended storage conditions.
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.
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Metals, light metals, ammonium compounds, acids.
Thermal decomposition:	No data available



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## 11. Toxicological information

### Toxicological tests

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, serious eye damage/irritation: Skin Corrosion 1B = 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.

## 12. Ecological information

### Ecotoxicity

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

### Mobility in soil

No data available

### Persistence and degradability

Further details: The surfactant contained in this mixture complies 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.

### Additional ecological information

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

## 13. Disposal considerations

### Product

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.



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### 14. Transport information

#### USA: Department of Transportation (DOT)

Identification number: UN1824  
Proper shipping name: UN 1824, SODIUM HYDROXIDE SOLUTION  
Hazard class or Division: 8  
Packing Group: III  
Labels: 8  
Special provisions: IB3, N34, T4, TP1  
Packaging – Exceptions: 154  
Packaging – Non-bulk: 203  
Packaging – Bulk: 241  
Quantity limitations – Passenger aircraft / rail: 5 L  
Quantity limitations – Cargo only: 60 L  
Vessel stowage – Location: A  
Vessel stowage – Other: 52.



#### Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1824  
Shipping name: UN 1824, SODIUM HYDROXIDE SOLUTION  
TDG class: 8  
Packing group: III  
Explosive limit and limited quantity index: 5 L  
Passenger carrying road or rail index: 5 L

#### Sea transport (IMDG)

UN number: UN 1824  
Proper shipping name: UN 1824, SODIUM HYDROXIDE SOLUTION  
Class or division, Subsidiary risk: Class 8, Subrisk-  
Packing Group: III  
EmS: F-A, S-B  
Special provisions: 223  
Limited quantities: 5 L  
Excepted quantities: 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.  
Marine pollutant: no  
Segregation group: 18



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### Air transport (IATA)

UN/ID number: UN 1824  
Proper shipping name: UN 1824, SODIUM HYDROXIDE SOLUTION  
Class or division, Subsidiary risk: Class 8  
Packing Group: III  
Hazard label: Corrosive  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L  
Special provisions: A3 A803  
Emergency Response Guide-Code (ERG): 8L

## 15. Regulatory information

### National regulations - Canada

No data available

### National regulations - U.S. Federal Regulations

Didecyldimethylammonium chloride: TSCA: listed  
Sodium hydroxide: TSCA Inventory: listed  
TSCA HPVC: not listed  
Clean Water Act:  
Hazardous Substances: RQ 1000 lbs.  
Other Environmental Laws:  
CERCLA: RQ 1000 lbs.  
NIOSH Recommendations:  
Occupational Health Guideline: 0565  
Oxoalcohol, ethoxylated: TSCA Inventory: listed; UVCB  
TSCA HPVC: not listed

### National regulations - U.S. State Regulations

Sodium hydroxide: Delaware Air Quality Management List:  
DRQ: 1000 - RQ State: Federal Regulations Apply  
Idaho Air Pollutant List:  
Title 585: AAC: 0,1 - EL: 0,133 - OEL: 2 - Title 586: AAAC: - EL: - OEF: -  
Massachusetts Haz. Substance codes: 2,4,5 F8 F9  
Minnesota Haz. Substance:  
Codes: AO - Ratings: - Status: Title III.  
New York List of Hazardous Substances:  
RQ-Air: 1000 - RQ-Land: 100 - Note: No Note Associated with this chemical.  
Pennsylvania Haz. Substance code: E  
Washington Air Contaminant: Ceiling: 2 mg

## 16. Other information

Text for labeling: Contains 2.5 - 10 % Didecyldimethylammonium chloride, < 2.5 % Sodium hydroxide, < 2.5 % Oxoalcohol, ethoxylated. Safety data sheet available on request.





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Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 0 (Minimal)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	1
	X

Reason of change: General revision

Date of first version: 28/7/2015

### Department issuing data sheet

Contact person: see section 1: Dept. 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.