



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Daily System Clean

Material number 186013

Revision date: 30/5/2017

Version: 2

Language: en-CA,US

Date of print: 13/12/2017

Page: 1 of 8

1. Product and company identification

Product identifier

Trade name: Daily System Clean
This safety data sheet pertains to the following products:
848 000 060 Daily System 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
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

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: Form: liquid
Color: light red
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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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 corrosive to metals.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Aqueous solution

Relevant ingredients:

| CAS No. | Designation | Content | Classification |
|----------------|-----------------------------------|------------|--|
| CAS 77-92-9 | Citric acid, anhydrous | 25 - 50 % | Eye Irritation 2A. |
| CAS 7173-51-5 | Didecyltrimethylammonium chloride | 2.5 - 10 % | Acute Toxicity 4 (oral). Skin Corrosion 1B. |
| 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. |
| After swallowing: | Rinse mouth and seek medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. In case of vomiting, position victim on their side. |



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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 fog, 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: ammonia, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

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!).

Storage

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place. Protect from light.

Hints on joint storage:

Do not store together with strong alkalis.



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8. Exposure controls / personal protection

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.

Breakthrough time: >480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Glove material: PVC, latex

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: | Form: liquid Color: light red |
| Odor: | odorless |
| Odor threshold: | No data available |
| pH value: | (Concentrate) approx. 3 |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | 115 °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: 1.05 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 |
| Oxidizing characteristics: | none |



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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 bases. With exposure to ammonium compounds, product will release ammonia. |
| Conditions to avoid: | Keep away from heat. |
| Incompatible materials: | Strong bases. |
| Thermal decomposition: | No data available |

11. Toxicological information

Toxicological tests

| | |
|------------------------|--|
| Toxicological effects: | Acute toxicity (oral): Lack of data. 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. Information about Citric acid, anhydrous (CAS No. 77-92-9): Daphnia toxicity: EC50 Daphnia magna (Big water flea): 1535 mg/L/24 (with neutralization) LC50 Daphnia magna (Big water flea): 85 mg/L/24h (without neutralization) Fish toxicity: LC50 Leuciscus idus. 440 - 760 mg/L/48h (IUCLID) |
|-------------------|---|

Mobility in soil

No data available



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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.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN3265
Proper shipping name: UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Didecyldimethylammonium chloride)
Hazard class or Division: 8
Packing Group: II
Labels: 8
Symbols: G
Special provisions: B2, IB2, T11, TP2, TP27
Packaging – Exceptions: 154
Packaging – Non-bulk: 202
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 1 L
Quantity limitations – Cargo only: 30 L
Vessel stowage – Location: B
Vessel stowage – Other: 40



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN3265
Shipping name: UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Didecyldimethylammonium chloride)
TDG class: 8
Packing group: II
Special provisions: 16
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 1 L



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Sea transport (IMDG)

UN number: UN 3265
Proper shipping name: UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Didecyldimethylammonium chloride)
Class or division, Subsidiary risk: Class 8, Subrisk-
Packing Group: II
EmS: F-A, S-B
Special provisions: 274
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: T11
Tank instructions - Provisions: TP2, TP27
Stowage and handling: Category B. SW2
Properties and observations: Causes burns to skin, eyes and mucous membranes.
Marine pollutant: no
Segregation group: 1

Air transport (IATA)

UN/ID number: UN 3265
Proper shipping name: UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Didecyldimethylammonium chloride)
Class or division, Subsidiary risk: Class 8
Packing Group: II
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

15. Regulatory information

National regulations - Canada

No data available

National regulations - U.S. Federal Regulations

Citric acid, anhydrous: TSCA Inventory: listed
TSCA HPVC: not listed
Didecyldimethylammonium chloride: TSCA: listed
Oxoalcohol, ethoxylated: TSCA Inventory: listed; UVCB
TSCA HPVC: not listed



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16. Other information

Text for labeling:

Contains 25 - 50 % Citric acid, anhydrous, 2.5 - 10 % Didecyldimethylammonium chloride, < 2.5 % Oxoalcohol, ethoxylated. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)

Fire: 0 (Minimal)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 3 (Serious)

Flammability: 0 (Minimal)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

| | |
|-----------------|---|
| HEALTH | 3 |
| 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.