

SAFETY DATA SHEET

Name: Radiometer SDS M2 005 Page: 1/12
Supersedes date: 2011-04-15 Revision: 2013-03-21
P/N-no.: Product numbers are listed i section 16. SDS-ID: US-EN/2.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Name: Radiometer SDS M2 005
Product name: Product specification see section 16.
Container size: Various

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

Application: Chemicals for Radiometer Equipment.

Details of the supplier of the safety data sheet

Supplier: Radiometer America Inc.
810 Sharon Drive
Westlake OH, 44145, USA
Tel:440-871-8900
www.radiometer.com

Manufacturer Radiometer Medical ApS
Åkandevvej 21
DK-2700 Brønshøj, DENMARK
Tel: +45 3827 2853
Tel: +45 3827 2828
www.radiometer.com

Responsible for material safety data sheet authoring: environment@radiometer.dk

Emergency telephone number

Emergency telephone: Emergency telephone: 911

(National Capital Poison Center: 1-800-222-1222)

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

This product is covered by the OSHA Hazard Communication Rule 29, CFR 1910.1200

Physical and Chemical Not relevant.

Hazards:

Human health: The hazardous properties of the product are considered limited. However, the product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals.

Environment: The hazardous properties of the product in the environment are considered to be limited.

Label elements

Based on information from the manufacturer regarding the chemical composition, the product is not liable to classification and labeling.

EC Label:
Safety data sheet available on request.

Other hazards

PBT/vPvB: Not relevant.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: Buffer, water, salts and preservative.

67/548/EEC:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
0.5-3 *)	7365-45-9	230-907-9	-	4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid	Xi;R36/37/38	
0.5-3 *)	75277-39-3	278-169-7	-	Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate	-	
<0.1	2682-20-4	220-239-6	-	2-Methyl-2H-isothiazol-3-one	T;R24/25 C;R34 Xi;R37 R43 N;R50	

GHS:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
0.5-3 *)	7365-45-9	230-907-9	-	4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid	Eye Irrit. 2;H319 Skin Irrit. 2;H315 STOT SE 3;H335	
0.5-3 *)	75277-39-3	278-169-7	-	Sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate	-	
<0.1	2682-20-4	220-239-6	-	2-Methyl-2H-isothiazol-3-one	Acute Tox. 3;H301 Acute Tox. 3;H311 Skin Corr. 1B;H314 Skin Sens. 1;H317 STOT SE 3;H335 Aquatic Acute 1;H400	

Notes: *) Buffer

References: The full text for all R-phrases and hazard statements are displayed in section 16.

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SECTION 4: FIRST AID MEASURES

Description of first aid measures

Considering the size of the packaging, the risk is regarded as minimal.

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of eczema or other skin disorders: Seek medical attention and bring these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Not known.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Special hazards arising from the substance or mixture

Specific hazards: No specific precautions.

Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Flush away small spillages with plenty of water.

Reference to other sections

References: For personal protection, see section 8.
For waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid contact with skin and eyes.
When product is in use it will contain human blood. Observe routine biosafety procedures in handling the product and consider all materials as potentially infectious.

Conditions for safe storage, including any incompatibilities

Storage conditions: See storage temperature on the product label.

Specific end use(s)

Specific use(s): Not relevant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit assigned.

Exposure controls

Engineering measures: Provide adequate ventilation. Avoid forming spray/aerosol mists.

Personal protection: Protective gloves and goggles are recommended.

Hygiene measures: Wash hands after contact.

Environmental Exposure Not available.

Controls:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Liquid.

Odor: Odorless.

pH: 6.8 - 7.8

Boiling point: approx. 212°F / 100°C

Relative density: approx. 1.0

Solubility: Completely soluble in water.

Other information

Other data: Not relevant.

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Reactivity: Not known.

Chemical stability

Stability: Stable under the prescribed storage conditions.

Possibility of hazardous reactions

Hazardous Reactions: None known.

Conditions to avoid

Conditions/materials to avoid: None specific.

Incompatible materials

Incompatible materials: Not known.

Hazardous decomposition products

Hazardous decomposition products: None in particular.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Considering the size of the packaging, the risk is regarded as minimal.

Inhalation: Inhalation of aerosols: May irritate the respiratory system.

Skin contact: Prolonged or repeated contact may cause irritation.

Eye contact: Direct contact may irritate.

Ingestion: Not likely, due to the packaging. However, ingestion may cause nausea, stomach pain and vomiting.

Specific effects: The product contains very small amounts of Isothiazolone which may provoke an allergic reaction among sensitive individuals.

Contains: HEPES (4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid). This substance is listed on the Danish EPA list of advisory classifications as:
May cause sensitisation by skin contact.

This product contains no ingredient listed on the NTP, IARC or California Proposition 65 carcinogen lists.

Additional information: This product contains no substances evaluated as:
Carcinogen/Mutagen/Reprotoxic (CMR)

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: The ecotoxicity of the product is considered to be limited.

Persistence and degradability

Degradability: The product is expected to be biodegradable.

Bioaccumulative potential

Bioaccumulative potential: Will not bio-accumulate.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT/vPvB: Not relevant.

Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

NOTE: When product is in use it will contain human blood. Observe routine biosafety procedures in handling the product and consider all materials as potentially infectious.

Contaminated packaging: Dispose of contaminated packings as residue.

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SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

UN number

UN-No: -

UN proper shipping name

Proper Shipping Name: -

Transport hazard class(es)

Class: -

Packing group

PG: -

Environmental hazards

Marine pollutant: -

Environmentally Hazardous substance: -

Special precautions for user

Special precautions: None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not relevant.

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SECTION 15: REGULATORY INFORMATION

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

When product is in use it will contain human blood. Follow the requirements in the Bloodborne Pathogens Standard (CFR 29 1910.1030)

Special provisions: TSCA: Listed.

SARA Section 302: Not listed.

SARA Section 313: Not listed.

SARA (311/312) Hazard categories:

Acute Health: Yes.

This product contains no ingredient listed on the NTP, IARC or California Proposition 65 carcinogen lists.

NFPA Rating: Health:1 Fire:0 Reactivity:0 Other:-

National regulation:

The following lists and legislation have been checked:

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Hazard Communication, with amendments.

The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.

The Code of Federal Regulation. Title 40, part 355.50. Emergency Planning and Notification.

The Code of Federal Regulation. Title 40, part 302.4. Designation, Reportable Quantities, and Notification.

The Code of Federal Regulation. Title 40, part 68.130. Chemical Accident Prevention Provisions.

The Code of Federal Regulation. Title 40, part 372.65. Toxic Chemical Release Reporting: Community Right to Know.

Threshold Limit Values (2012), ACGIH, by the American Conference on Governmental Industrial Hygienists.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants (OSHA), with amendments.

U.S. Department of health and human services: 2011 - Report on Carcinogens - 12th Edition.

International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

State of California. Environmental Protection Agency. California Proposition 65, with amendments.

Chemical Safety Assessment

CSA status: Not relevant.

SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 1, 3, 7, 8, 16.

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Product specification:

943-961 S5530 MULTICHECK, level1
943-962 S5540 MULTICHECK, level 2
943-963 S5550 MULTICHECK, level 3
944-045 S7230 QUALICHECK 2+, Level 1
944-046 S7240 QUALICHECK 2+, Level 2
944-047 S7250 QUALICHECK 2+, Level 3
944-048 S7260 QUALICHECK 2+, Level 4
944-049 S7330 QUALICHECK 3+, Level 1
944-050 S7340 QUALICHECK 3+, Level 2
944-051 S7350 QUALICHECK 3+, Level 3
944-017 S7730 QUALICHECK 5+, Level 1
944-018 S7740 QUALICHECK 5+, Level 2
944-019 S7750 QUALICHECK 5+, Level 3
944-151 Range+ QUALICHECK level 1, box of
944-152 Range+ QUALICHECK level 2, box of
944-153 Range+ QUALICHECK level 3, box of
943-831 S1585 Calibration Solution 1
943-832 S1595 Calibration Solution 2
944-015 S1583 Calibration Solution 1
944-021 S7770 tHb calibration Solution
944-024 S1720 Calibration Solution 1
944-030 S1584 Calibration Solution 1
944-064 S1720 Calibration Solution 1
944-127 S1820 Calibration Solution 1
944-128 S1820 Calibration Solution 1
944-074 S7735 AUTOCHECK 5+, Level 1
944-075 S7745 AUTOCHECK 5+, Level 2
944-076 S7755 AUTOCHECK 5+, Level 3
944-082 S7335 AUTOCHECK 3+, Level 1
944-083 S7345 AUTOCHECK 3+, Level 2
944-084 S7355 AUTOCHECK 3+, Level 3
944-094 S7835 AUTOCHECK 6+, Level 1
944-095 S7845 AUTOCHECK 6+, Level 2
944-096 S7855 AUTOCHECK 6+, Level 3
944-162 Demovæske til Safe PICO
944-293 S1720 Cal 1 solution for ABL7XX/8XX

This SDS refers to the following internal drawings:

943-961: A4-25815 rev 30
943-962: A4-25816 rev 30
943-963: A4-25817 rev 30
944-045: A4-28793 rev 15
944-046: A4-28794 rev 14
944-047: A4-28795 rev 14
944-048: A4-28796 rev 16
944-049: A4-29550 rev 18
944-050: A4-29551 rev 16
944-051: A4-29552 rev 18
944-017: A4-30970 rev 5
944-018: A4-30971 rev 4
944-019: A4-30972 rev 3
944-151: A4-34452 rev 10

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944-152: A4-34453 rev 10
944-153: A4-34454 rev 10
943-831: A4-23726 rev 15
943-832: A4-23727 rev 14
944-015: A4-27391 rev 9
944-021: A4-28303 rev 18
944-024: A4-37072 rev 2
944-030: A4-27070 rev 13
944-064: A4-37072 rev 2
944-127: A4-37072 rev 2
944-128: A4-37072 rev 2
944-074: A4-30970 rev 5
944-075: A4-30971 rev 4
944-076: A4-30972 rev 3
944-082: A4-30970 rev 5
944-083: A4-30971 rev 4
944-084: A4-30972 rev 3
944-094: A4-32179 rev 11
944-095: A4-32180 rev 9
944-096: A4-32181 rev 8
944-162: A4-34890
944-293: A4-37072 rev 2

Wording of H-statements:

R24/25	Toxic in contact with skin and if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

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The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.
www.dhigroup.com.
