GE Healthcare

Material Safety Data Sheet

United States English

Section 1. Chemical product and company identification

Product name MES Buffer; part of 'MicroCal™ iTC200 Test Kit

(EDTA)

Catalogue Number KIT020988

Component Number 28996282

Material uses Industrial applications: Analytical reagent. Research.

Product type Liquid.

Validation date24 September 2013Print date24 September 2013SupplierGE Healthcare UK Ltd
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In case of emergency US ChemTrec (US) 1-800-424-9300

Canada ChemTrec (US) 1-703-527-3887

2. Hazards identification

Physical stateLiquid.ColorColorless.OdorOdorless.

Hazard statements NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

OSHA/HCS status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

EyesNo known significant effects or critical hazards.SkinNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Potential chronic health effects

Chronic effectsNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.EyesNo specific data.



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See toxicological information (Section 11)

3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

The case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Get medical attention if symptoms occur.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie,

belt or waistband. Get medical attention if symptoms occur.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aidersNo action shall be taken involving any personal risk or without suitable training.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Section 5. Fire-fighting measures

Flammability of the product In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Special exposure hazards Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products No specific data

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautionsNo action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled

material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautionsAvoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information

and Section 13 for waste disposal.

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be

prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas.

Storage Store between the following temperatures: 4 to 25°C (39.2 to 77°F). Store in accordance with local

regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to

avoid environmental contamination.



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Section 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Hands

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary.

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates

this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses

Skin Personal protective equipment for the body should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or

engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

Section 9. Physical and chemical properties

Physical state Liquid Color Colorless. Odor Odorless. рН 5.6

Boiling/condensation point 100°C (212°F) Melting/freezing point 0°C (32°F) Volatility 0% (v/v)

Solubility Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Chemical stability The product is stable. No specific data. Conditions to avoid Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological information

Acute toxicity

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

Irritation/Corrosion

Not available. Conclusion/Summary

<u>Sensitizer</u>

Conclusion/Summary Not available

Carcinogenicity

Conclusion/Summary Not available

Mutagenicity

Conclusion/Summary Not available



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<u>I eratogenicity</u>

Conclusion/Summary

Not available.

Reproductive toxicity

Conclusion/Summary Not available

Section 12. Ecological information

Environmental effects

No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary

Not available

Persistence/degradability

Conclusion/Summary

Not available

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

IATA-DGR Class PG* Classes

PG*: Packing group

Section 15. Regulatory information

HCS Classification Not regulated.

TSCA 8(a) CDR Exempt/Partial exemption: Not determined U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Not listed

Clean Air Act Section 602 Class I

Substances

Not listed

Clean Air Act Section 602 Class II Not listed

Substances

DEA List I Chemicals (Precursor

Chemicals)

Not listed

DEA List II Chemicals (Essential

Chemicals)

Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

SARA 311/312

Not applicable. Classification

Composition/information on ingredients

No products were found.

State regulations



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Massachusetts None of the components are listed **New York** None of the components are listed. None of the components are listed. **New Jersey** Pennsylvania None of the components are listed.

California Prop. 65

United States inventory (TSCA 8b) All components are listed or exempted.

International regulations

Kustralia inventory (AICS): All components are listed or exempted. International lists

China inventory (IECSC): Not determined.

Japan inventory: All components are listed or exempted. Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention

List Schedule I Chemicals

Chemical Weapons Convention

List Schedule II Chemicals

Not listed

Not listed

Chemical Weapons Convention

List Schedule III Chemicals

Not listed

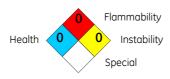
Section 16. Other information

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED Label requirements

INSTRUCTIONS FOR USE ARE FOLLOWED.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)





Indicates information that has changed from previously issued version.

History

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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