SAFETY DATA SHEET



pO2 Electrode

MSDS no.

476246

Section 1. Identification

GHS product identifier : pO2 Electrode

: 476246, 02742339, 10311023, 10324408 **Product code**

Other means of

identification

: pO2 Electrolyte Solution

00156091H

Product type : Liquid.

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

Not applicable.

Manufactured/supplied : Siemens Healthcare Diagnostics Inc.

511 Benedict Avenue

Tarrytown, NY 10591-5097 USA

1-877-229-3711

(800) 424-9300 (CHEMTREC) (24/365)

Section 2. Hazards identification

OSHA/HCS status : pO2 Electrolyte Solution This material is not considered hazardous

by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

Classification of the

substance or mixture

: pO2 Electrolyte Solution

Not classified.

GHS label elements

Signal word : pO2 Electrolyte Solution No signal word.

Hazard statements : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Precautionary statements

Prevention Not applicable. : pO2 Electrolyte Solution Response : pO2 Electrolyte Solution Not applicable. **Storage** : pO2 Electrolyte Solution Not applicable. **Disposal** : pO2 Electrolyte Solution Not applicable. Supplemental label None known. : pO2 Electrolyte Solution

elements

Hazards not otherwise

classified

: pO2 Electrolyte Solution None known.

Section 3. Composition/information on ingredients

Substance/mixture : pO2 Electrolyte Solution Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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. Occupational exposure limits, if available, are listed in Section 8.

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Skin contact

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: pO2 Electrolyte Solution Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs

Inhalation : pO2 Electrolyte Solution Remove victim to fresh air and keep at rest

in a position comfortable for breathing. Get

medical attention if symptoms occur.

: pO2 Electrolyte Solution Flush contaminated skin with plenty of

water. Remove contaminated clothing and shoes. Get medical attention if symptoms

occur.

Ingestion : pO2 Electrolyte Solution Wash out mouth with water. Remove

victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Inhalation : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Skin contact : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Ingestion : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Over-exposure signs/symptoms

Eye contact: pO2 Electrolyte SolutionNo specific data.Inhalation: pO2 Electrolyte SolutionNo specific data.Skin contact: pO2 Electrolyte SolutionNo specific data.Ingestion: pO2 Electrolyte SolutionNo specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities

have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing

media

: None known.

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Section 5. Fire-fighting measures

Specific hazards arising from the chemical

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

Hazardous thermal decomposition products

: No specific data.

Special protective actions for fire-fighters

: 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.

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 precautions, protective equipment and emergency procedures

For non-emergency personnel

: No 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.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid 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 and materials for containment and cleaning up

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.

Large spill

: 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Advice on general occupational hygiene

: 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

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

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

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

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 levels.

Individual protection measures

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.

Eye/face protection

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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: 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.

Body protection

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.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

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.

Not available.

Not available.

Section 9. Physical and chemical properties

Physical state: pO2 Electrolyte SolutionLiquid.Color: pO2 Electrolyte SolutionColorless.Odor: pO2 Electrolyte SolutionOdorless.pH: pO2 Electrolyte Solution6.78

Flash point : pO2 Electrolyte Solution Not available.

Flammability (solid, gas) : pO2 Electrolyte Solution Not available.

Relative density : pO2 Electrolyte Solution >1

Solubility in water : pO2 Electrolyte Solution
Partition coefficient: noctanol/water : pO2 Electrolyte Solution

Auto-ignition temperature: pO2 Electrolyte SolutionNot available.Viscosity: pO2 Electrolyte SolutionNot available.

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Section 10. Stability and reactivity

Reactivity : pO2 Electrolyte Solution No specific test data related to reactivity

available for this product or its ingredients.

Chemical stability : pO2 Electrolyte Solution The product is stable.

Possibility of hazardous

reactions

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

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Conclusion/Summary

: pO2 Electrolyte Solution

Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin: pO2 Electrolyte SolutionNot available.Eyes: pO2 Electrolyte SolutionNot available.Respiratory: pO2 Electrolyte SolutionNot available.

Sensitization

Not available.

Conclusion/Summary

Skin: pO2 Electrolyte SolutionNot available.Respiratory: pO2 Electrolyte SolutionNot available.

Mutagenicity

Not available.

Conclusion/Summary

: pO2 Electrolyte Solution

Not available.

Carcinogenicity

Not available.

Conclusion/Summary

: pO2 Electrolyte Solution

Not available.

Reproductive toxicity

Not available.

Conclusion/Summary

: pO2 Electrolyte Solution

Not available.

Teratogenicity

Not available.

Conclusion/Summary : pO2 Electrolyte Solution

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

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Section 11. Toxicological information

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Inhalation : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Skin contact : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Ingestion : pO2 Electrolyte Solution No known significant effects or critical

hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: pO2 Electrolyte SolutionNo specific data.Inhalation: pO2 Electrolyte SolutionNo specific data.Skin contact: pO2 Electrolyte SolutionNo specific data.Ingestion: pO2 Electrolyte SolutionNo specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : pO2 Electrolyte Solution Not available.

effects

Potential delayed effects : pO2 Electrolyte Solution Not available.

Long term exposure

Potential immediate : pO2 Electrolyte Solution Not available.

effects

Potential delayed effects : pO2 Electrolyte Solution Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available. pO2 Electrolyte Solution

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Interactive effects : pO2 Electrolyte Solution Not available.

Other information : pO2 Electrolyte Solution Not available.

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Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary : pO2 Electrolyte Solution Not available.

Persistence and degradability

Conclusion/Summary : pO2 Electrolyte Solution Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: pO2 Electrolyte Solution Not available.

Mobility : pO2 Electrolyte Solution Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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.

Section 14. Transport information

DOT Classification

UN number pO2 Electrolyte Solution Not regulated.

UN proper shipping name

pO2 Electrolyte Solution

Transport

pO2 Electrolyte Solution -

hazard class(es)

Packing group pO2 Electrolyte Solution -

Environmental

hazards

pO2 Electrolyte Solution No.

Additional information

pO2 Electrolyte Solution -

TDG Classification

UN number pO2 Electrolyte Solution Not regulated.

UN proper shipping name

pO2 Electrolyte Solution -

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Section 14. Transport information

Transport hazard class(es)

pO2 Electrolyte Solution

Packing group

Environmental

pO2 Electrolyte Solution pO2 Electrolyte Solution

pO2 Electrolyte Solution

Additional information

hazards

poz Electroryte colution

Mexico Classification

UN number pO2 Electrolyte Solution Not regulated.

No.

No.

No.

UN proper shipping name

pO2 Electrolyte Solution

Transport pO2 Electrolyte Solution hazard class(es)

Packing group pO2 Electrolyte Solution

Environmental hazards

pO2 Electrolyte Solution

Additional pO2 Electrolyte Solution - information

ADR/RID

UN number pO2 Electrolyte Solution Not regulated.

UN proper shipping name

pO2 Electrolyte Solution

Transport hazard class(es)

pO2 Electrolyte Solution

Packing group pO2 Electrolyte Solution -

Environmental

hazards

pO2 Electrolyte Solution

Additional information

pO2 Electrolyte Solution

IMDG

UN number pO2 Electrolyte Solution Not regulated.

UN proper shipping name

pO2 Electrolyte Solution

Transport pO2 Electrolyte Solution

hazard class(es)

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Section 14. Transport information

Packing group pO2 Electrolyte Solution

Environmental hazards

pO2 Electrolyte Solution

No.

Additional information

pO2 Electrolyte Solution

IATA

UN number pO2 Electrolyte Solution Not regulated.

UN proper shipping name

pO2 Electrolyte Solution

-

Transport hazard class(es)

pO2 Electrolyte Solution

-

Packing group

pO2 Electrolyte Solution

Environmental

pO2 Electrolyte Solution

Special precautions for user : pO2 Electrolyte Solution

No.

hazards

Additional pO2 Electrolyte Solution

information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Section 15. Regulatory information

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

United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

: Not listed

Class I Substances

: Not listed

Clean Air Act Section 602 Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

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Section 15. Regulatory information

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

State regulations

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

International regulations

Chemical Weapons : pO2 Electroly

Convention List Schedule I

Chemicals

Chemical Weapons

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

III Chemicals

: pO2 Electrolyte Solution Not listed

: pO2 Electrolyte Solution Not listed

: pO2 Electrolyte Solution Not listed

Section 16. Other information

History

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revision

: 1/22/2016.

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Allergen : Not available.

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