

Date Prepared: 01/08/2007

Reviewed On: 01/08/2007

1 Identification of substance:

- **Product name:** Isovitalex Enrichment
- **Catalog number:** 211876
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-0100 or (800) 638-8663
- **Information department:** Technical services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800) 638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

7647-01-0	hydrochloric acid	1.0%
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3 Hazards identification

· **Hazard description:**



C Corrosive

· **Information pertaining to particular dangers for man and environment**

- R 34 Causes burns.
- R 37 Irritating to respiratory system.

· **Classification system**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**



Health = 3
Fire = 0
Reactivity = 0

4 First aid measures

- **General information** Immediately remove contaminated clothing.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 2)

Date Prepared: 01/08/2007

Reviewed On: 01/08/2007

Product name: Isovitalex Enrichment

(Contd. of page 1)

*· Information for doctor Show this product label or this MSDS.***5 Fire fighting measures**

- Suitable extinguishing agents*
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment: No special measures required.*

6 Accidental release measures

- Person-related safety precautions: Not required.*
- Measures for environmental protection: Wipe up with damp sponge or mop.*
- Measures for cleaning/collecting: No special measures required.*

7 Handling and storage

- Handling*
 - Information for safe handling: Ensure good ventilation/exhaustion at the workplace.*
 - Information about protection against explosions and fires: No special measures required.*
- Storage*
 - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.*
 - Information about storage in one common storage facility: Store away from oxidizing agents.*
 - Further information about storage conditions: Store in cool, dry conditions in well sealed containers.*

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.*

- Components with limit values that require monitoring at the workplace:*

7647-01-0 hydrochloric acid

PEL	Short-term value: C 7 mg/m ³ , C 5 ppm
REL	Short-term value: C 7 mg/m ³ , C 5 ppm
TLV	Short-term value: C 2.98 mg/m ³ , C 2 ppm

- Additional information: The lists that were valid during the creation were used as basis.*

- Personal Protective Equipment*
- General protective and hygienic measures*
 - Keep away from foodstuffs, beverages and feed.*
 - Immediately remove all soiled and contaminated clothing.*
 - Wash hands before breaks and at the end of work.*
 - Avoid contact with the eyes and skin.*

- Breathing equipment:*

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

(Contd. on page 3)

Date Prepared: 01/08/2007

Reviewed On: 01/08/2007

Product name: Isovitalex Enrichment

(Contd. of page 2)

· Protection of hands:



Chemical resistant gloves (i.e. nitrile, or equivalent).

· Eye protection: Safety glasses

· Body protection: Protective work clothing (lab coat).

9 Physical and chemical properties:

· General Information

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· Flash point: Not applicable

· Auto igniting: Product is not self igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Density: Not determined

· Solubility in / Miscibility with Water: Soluble

· pH-value: 1.0

· Solvent content:

· Solids content: 100.0 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Dangerous reactions Reacts with acids, alkalis and oxidizing agents

· Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· on the skin: Caustic effect on skin and mucous membranes.

· on the eye: Strong caustic effect.

· Sensitization: No sensitizing effects known.

(Contd. on page 4)

Date Prepared: 01/08/2007

Reviewed On: 01/08/2007

Product name: Isovitalex Enrichment

(Contd. of page 3)

· Additional toxicological information:

Corrosive (causes skin burns)

The product shows the following dangers according to internally approved calculation methods for preparations:

This product or product container contains dry natural rubber latex.

12 Ecological information:

· Ecotoxicological effects:

· Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· General notes: *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

13 Disposal considerations

· Product:

· Recommendation

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

RCRA hazardous waste - RCRA # D002 (corrosive).

· Uncleaned packagings:

· Recommendation: *Disposal must be made according to state and federal regulations.*

· Recommended cleansing agent: *Water, if necessary with cleansing agents.*

14 Transport information

· DOT regulations:

· Hazard class: -

· Land transport ADR/RID (cross-border)

· ADR/RID class: -

· Maritime transport IMDG:

· IMDG Class: -

· Marine pollutant: *No*

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: -

15 Regulations

· SARA Section 355 (extremely hazardous substances)

7647-01-0 | hydrochloric acid

(Contd. on page 5)



Material Safety Data Sheet
acc. to ISO/DIS 11014

Date Prepared: 01/08/2007

Reviewed On: 01/08/2007

Product name: Isovitalex Enrichment

(Contd. of page 4)

· SARA Section 313 (specific toxic chemical listings)

7647-01-0	hydrochloric acid
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· TSCA (Toxic Substances Control Act)

56-89-3	L-cystine
7647-01-0	hydrochloric acid
56-85-9	L-Glutamine
52-90-4	L-cysteine
73-24-5	adenine
	nicotinamide adenine dinucleotide
154-87-0	coccarboxylase
73-40-5	guanine
10421-48-4	Ferric Nitrate
	vitamin B12
	p-aminobenzoic acid

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenicity categories

· IARC (International Agency for Research on Cancer)

7647-01-0	hydrochloric acid	3
	p-aminobenzoic acid	3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· Hazard symbols:

C Corrosive

· Risk phrases:

34 Causes burns.
37 Irritating to respiratory system.

· Safety phrases:

20 When using do not eat or drink.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

(Contd. on page 6)



Material Safety Data Sheet
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Date Prepared: 01/08/2007

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Product name: Isovitalex Enrichment

(Contd. of page 5)

45 *In case of accident or if you feel unwell, seek medical advice immediately.*

60 *This material and its container must be disposed of as hazardous waste.*

16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities 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 can not guarantee that these are the only hazards that exist.

- **Department issuing MSDS:** Safety and Environment Department
- **Contact:** Technical Service Representative

USA