

1 Identification of substance:

- **Product name:** *Isovitalex Enrichment*
- **Catalog number:** *211876*
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Tel: (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.*

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*· 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.

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· **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.

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· 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*

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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Reviewed on 08/25/2003

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· 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.

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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:

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

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