

1 Identification of substance:

- **Product name:** *Catalase Test*
- **Catalog number:** 261203
- **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:**
- **Identification number(s):**
- **EINECS Number:** 2317650
- **EU Number:** 008-003-00-9
- **Chemical characterization**
- **Description:** *Mixture consisting of the following components.*

· Dangerous components:

7722-84-1	hydrogen peroxide solution	3.0%
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3 Hazards identification**· Hazard description:**

Xi Irritant

· Information pertaining to particular dangers for man and environment

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 22 Harmful if swallowed.

· 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 = 2

Fire = 0

Reactivity = 0

4 First aid measures

- **General information** *No special measures required.*
- **After inhalation** *Supply fresh air; consult doctor in case of complaints.*

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- **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** If symptoms persist consult doctor.

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.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **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.
- **Additional information:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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:** 15 - 30 C
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
Store away from: ammonia, carbonates, and organic material.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from exposure to the light.

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:**

7722-84-1 hydrogen peroxide solutionPEL 1.4 mg/m³, 1 ppmREL 1.4 mg/m³, 1 ppmTLV 1.4 mg/m³, 1 ppm

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

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- **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.
- **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:	Clear
Odor:	Characteristic

· **Change in condition**

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

· **Flash point:** Not applicable

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

· **Density:** Not determined

· **Solubility in / Miscibility with**

Water: Soluble

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:** Incompatible materials: Ammonia, carbonates, and organic material.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known.

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11 Toxicological information**· Acute toxicity:****· LD/LC50 values that are relevant for classification:****7722-84-1 hydrogen peroxide solution**

Oral | LD50 | 1518 mg/kg (rat)

· Primary irritant effect:**· on the skin:** Irritant to skin and mucous membranes.**· on the eye:** Irritating effect.**· Sensitization:** No sensitizing effects known.**· Additional toxicological information:**

Irritant

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

12 Ecological information:**· Ecotoxicological effects:****· Other information:**

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

· General notes: Generally not hazardous for water.**13 Disposal considerations****· Product:****· Recommendation**

Smaller quantities can be disposed of with solid waste.

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

This product is not considered a RCRA hazardous waste.

· 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

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- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

- **SARA Section 355 (extremely hazardous substances)**

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- **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act)**

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- **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)**

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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

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- **Product related hazard information:**

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

- **Hazard symbols:**

Xi Irritant

- **Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

22 Harmful if swallowed.

- **Safety phrases:**

2 Keep out of the reach of children.

3 Keep in a cool place.

28 After contact with skin, wash immediately with plenty of water

36/39 Wear suitable protective clothing and eye/face protection.

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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16 Other information:

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

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