

1 Identification of substance:

- **Product name:** Azide Dextrose Broth
- **Catalog number:** 238710
- **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:**

7647-14-5	sodium chloride	21.6%
26628-22-8	sodium azide	0.6%

3 Hazards identification

· **Hazard description:**



Xn Harmful

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

- R 22 Harmful if swallowed.
- R 36/37/38 Irritating to eyes, respiratory system and skin.

· **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**

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.
- **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.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Nitrogen oxides (NO_x)
- **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:** < 30 C
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
- **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:**

26628-22-8 sodium azide

REL Short-term value: C 0.3** mg/m³, C 0.1* ppm
*as HN₃ vapor; **as NaN₃

TLV Short-term value: C 0.29** mg/m³, C 0.11* ppm
*as HN₃ vapor; **as NaN₃

- **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:	Solid. Powder
Color:	Beige
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:** Forms very sensitive explosive metallic compounds.

· **Density:** Not determined

· **Solubility in / Miscibility with**

Water: Soluble

· **pH-value:** 7.2 +/- 0.2

10 Stability and reactivity

· **Dangerous products of decomposition:**

Chlorine (Cl)
Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

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· Additional information:

Sodium azide is present in this product. Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Should any of this material be introduced into a sanitary sewer system, flush with copious amounts of water.

11 Toxicological information**· Acute toxicity:****· LD/LC50 values that are relevant for classification:****26628-22-8 sodium azide**

Oral LD50 27 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.**· Other information (about experimental toxicology):**

This product has a TDLo of 118mg/kg (Or-human) based upon sodium azide content.

· Subacute to chronic toxicity:

Target organs: cardiovascular system, respiratory system, central nervous system.

Target organs: respiratory tract, eyes, kidneys, and skin.

· Additional toxicological information:

Harmful

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: Water hazard class 1 (Self-assessment): slightly 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.

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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)**
- 26628-22-8 | sodium azide
- **SARA Section 313 (specific toxic chemical listings)**
- 26628-22-8 | sodium azide
- **TSCA (Toxic Substances Control Act)**
- 50-99-7 | dextrose
- 26628-22-8 | sodium azide
- **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)**
- None of the ingredients is listed.
- **NTP (National Toxicology Program)**
- None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
- 26628-22-8 | sodium azide | A4
- **Product related hazard information:**
- The product has been classified and marked in accordance with regulations on hazardous materials.
- **Hazard symbols:**
- Xn Harmful
- **Hazard-determining components of labeling:**
- sodium azide

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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*sodium chloride***· Risk phrases:**

- 22 *Harmful if swallowed.*
- 36/37/38 *Irritating to eyes, respiratory system and skin.*

· Safety phrases:

- 22 *Do not breathe dust.*
- 36 *Wear suitable protective clothing.*
- 24/25 *Avoid contact with skin and eyes.*
- 7 *Keep container tightly closed.*

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 cannot guarantee that these are the only hazards that exist.

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

USA