

1 Identification of substance:

· **Product details:**

· **Product name:** BrdU/Dnase

· **Catalog number:** 340649

· **Manufacturer/Supplier:**

BD Biosciences

2350 Qume Drive

San Jose, CA 95131

Tel.: (877)232-8995

· **Information department:** Technical Services

· **Emergency information:**

In case of a chemical emergency, spill, fire, or exposure, call BD Biosciences at (877)232-8995, or ChemTrec at (800)424-9300.

2 Composition/Data on components:

· **Chemical characterization:**

· **CAS No. Description:**

Not applicable

· **Identification number(s):**

· **EINECS Number:** 2317912

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

26628-22-8	sodium azide	0.1%
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3 Hazards identification

· **Hazard description:**



Xn Harmful

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

R 22 Harmful if swallowed.

· **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** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

Product name: BrdU/Dnase

(Contd. of page 1)

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder 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:**
During heating or in case of fire poisonous gases may be produced.
- **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **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:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **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:** None.

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

ACGIH TLV C 0.29**, A4 mg/m³, C 0.11*, A4 ml/m³

*as HN₃ vapor; **as NaN₃

NIOSH REL C 0.3** mg/m³, C 0.1* ml/m³

*as HN₃ vapor; **as NaN₃

- **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.

(Contd. on page 3)

Product name: BrdU/Dnase

(Contd. of page 2)

Wash hands before breaks and at the end of work.

· **Breathing equipment:**

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

· **Protection of hands:**



Chemical resistant gloves.

· **Eye protection:** Safety glasses

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

9 Physical and chemical properties:

· **General Information**

Form:	Liquid
Color:	Colorless
Odor:	Odorless

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **Danger of explosion:** Forms very sensitive explosive metallic compounds.

· **Vapor pressure:** Not applicable

· **Density:** Not determined

· **Solubility in / Miscibility with**

Water: Soluble

· **pH-value:** 7.0

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Materials to be avoided:** Incompatible materials: acidic material and metals

· **Dangerous reactions** No dangerous reactions known

· **Dangerous products of decomposition:** Nitrogen oxides (NO_x)

· **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.

Product name: BrdU/Dnase

(Contd. of page 3)

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:** No irritant effect.**· on the eye:** No irritating effect.**· Sensitization:** No sensitizing effects known.**· Subacute to chronic toxicity:** Target organs: kidneys, and central nervous system**· Additional toxicological information:**

Harmful

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.

Must adhere to state and federal regulations.

Disposal must be made according to the regulations found in 40 CFR 261.

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

(Contd. on page 5)



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Product name: BrdU/Dnase

(Contd. of page 4)

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

15 Regulations

- **Product related hazard informations:**
The product has been classified and marked in accordance with regulations on hazardous materials.
- **Hazard symbols:**
Xn Harmful
- **Hazard-determining components of labelling:**
sodium azide
- **Risk phrases:**
22 Harmful if swallowed.
- **Safety phrases:**
2 Keep out of the reach of children.
13 Keep away from food, drink and animal feedingstuffs.
36 Wear suitable protective clothing.
46 If swallowed, seek medical advice immediately and show this container or label.
- **National regulations**
- **Additional classification according to Decree on Hazardous Materials:**
CERCLA: This product contains sodium azide and has a Reporting Quantity (RQ) of 1,000 lbs.
SARA 311/312: Maybe subject to reporting.
313: Subject to reporting.
TSCA: This product exempt under TSCA.
- **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson and Company, nor 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 & Environment Department*
- **Contact:** *Technical Service Representative*