

### 1 Identification of substance:

- **Product name:** BD Oncomark FMC7/CD23/CD5/CD19/CD38/CD45
- **Catalog number:** 338430-MSDS.A
- **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**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

26628-22-8	Sodium azide	T+, N; R 28-32-50/53	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.
- **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** Supply fresh air; consult doctor 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** Seek immediate medical advice.

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 · **Information for doctor** Show the product label or this MSDS.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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<sub>x</sub>)
- **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).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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:** 2 - 8 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/m <sup>3</sup> , C 0.1* ppm *as HN <sub>3</sub> vapor; **as NaN <sub>3</sub>
TLV	Short-term value: C 0.29** mg/m <sup>3</sup> , C 0.11* ppm *as HN <sub>3</sub> vapor; **as NaN <sub>3</sub>

- **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.  
 Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **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

<b>Form:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Characteristic

#### · Change in condition

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** 100°C (212°F)

- |   |   |
|---|---|
| · <b>Flash point:</b>                     | Not applicable                                |
| · <b>Auto igniting:</b>                   | Product is not self igniting.                 |
| · <b>Danger of explosion:</b>             | Product does not present an explosion hazard. |
| · <b>Vapor pressure:</b>                  | 1.0 hPa (1 mm Hg)                             |
| · <b>Density:</b>                         | 1.0 g/cm <sup>3</sup>                         |
| · <b>Solubility in / Miscibility with</b> |   |
| <b>Water:</b>                             | Soluble                                       |
| · <b>pH-value:</b>                        | 7.2 - 7.6                                     |
| · <b>Solvent content:</b>                 |   |
| <b>Organic solvents:</b>                  | 0 %   |
| <b>Water:</b>                             | 100 %   |
| · <b>Solids content:</b>                  | 0 %   |

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**  
 Incompatible material: strong oxidizers.  
 Incompatible materials: acidic material and metals
- **Dangerous reactions** No dangerous reactions known

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- **Dangerous products of decomposition:** Nitrogen oxides (NO<sub>x</sub>)
- **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:** No irritating effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

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

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

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

**13 Disposal considerations**· **Product:**· **Recommendation**

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261), 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:** -

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- **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)**

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

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- **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**

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)**

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- **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

- **Risk phrases:**

22 Harmful if swallowed.

- **Safety phrases:**

36 Wear suitable protective clothing.

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



**Material Safety Data Sheet**  
*acc. to ISO/DIS 11014*

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**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