SAFETY DATA SHEET

1. Identification

Product identifier

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Product name</th>
<th>Common name(s), synonym(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>560239</td>
<td>BD Pharmingen™ APC Mouse anti-Human CD39 (TU66)</td>
<td></td>
</tr>
</tbody>
</table>

Other means of identification

SDS number: 088100008315

Recommended use and restrictions on use

Recommended use: Scientific and industrial laboratory use. For research use only.

Restrictions on use: Not for use in diagnostic or therapeutic procedures.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD Biosciences, Pharmingen
Address: 10975 Torreyana Road
          92121 San Diego, CA USA
Telephone: 1 877 232 8995 or 1 800 424 9300
Fax: Contact Person: Technical Services
E-mail: ResearchApplications@bd.com

Emergency telephone number: ChemTrec 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: not applicable
Precautionary Statements

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients
### Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
<td></td>
<td>26628-22-8</td>
<td>0.088%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### General information:
Get medical attention if symptoms occur.

#### Ingestion:
Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

#### Inhalation:
Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

#### Skin Contact:
Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

#### Eye contact:
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

#### Most important symptoms/effects, acute and delayed

- **Symptoms:** No data available.

#### Indication of immediate medical attention and special treatment needed

- **Treatment:** No data available.

### 5. Fire-fighting measures

#### General Fire Hazards:
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

#### Suitable (and unsuitable) extinguishing media

- **Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

- **Unsuitable extinguishing media:** not applicable

- **Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.
Special protective equipment and precautions for firefighters

Special fire fighting procedures: No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

Methods and material for containment and cleaning up: Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry place. Keep container tightly closed.

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3)) - as HN3</td>
<td>Ceiling</td>
<td>0.1 ppm</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3)) - as NaN3</td>
<td>Ceiling</td>
<td>0.3 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3)) - as HN3</td>
<td>Ceiling</td>
<td>0.3 mg/m³</td>
<td>US. Tennessee, OELs, Occupational Exposure Limits, Table Z1A (06 2008)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>AN ESL</td>
<td>0.07 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>ST ESL</td>
<td>0.7 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>AN ESL</td>
<td>0.2 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)</td>
</tr>
</tbody>
</table>
ST ESL  2 µg/m³  US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)

Ceiling  0.1 ppm  0.3 mg/m³  US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)

Sodium azide (Na(N3)) - as NaN₃  Ceiling  0.29 mg/m³  US. ACGIH Threshold Limit Values (12 2010)

Sodium azide (Na(N3)) - as hydrazoic acid vapor  Ceiling  0.11 ppm  US. ACGIH Threshold Limit Values (12 2010)

Sodium azide (Na(N3)) - as HN₃  Ceiling_Time  0.1 ppm  US. NIOSH: Pocket Guide to Chemical Hazards (2005)

Sodium azide (Na(N3)) - as NaN₃  Ceiling_Time  0.3 mg/m³  US. NIOSH: Pocket Guide to Chemical Hazards (2005)

Appropriate Engineering Controls
No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection: Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Blue

Odor: Odorless

Odor threshold: No data available.

pH: 7.2

Melting point/freezing point: The physical-chemical properties of this material have not been fully investigated.

Initial boiling point and boiling range: No data available.
Flash Point: The physical-chemical properties of this material have not been fully investigated.
Evaporation rate: No data available.
Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper (%): No data available.
- Explosive limit - lower (%): No data available.

Vapor pressure: No data available.
Vapor density: No data available.
Relative density: No data available.
Solubility(ies)
- Solubility in water: Soluble
- Solubility (other): The physical-chemical properties of this material have not been fully investigated.

Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: Not determined.

10. Stability and reactivity
Reactivity: Stable under normal temperature conditions and recommended use.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Not determined.
Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials: Metals. Water reactive material.
Hazardous Decomposition Products: Stable; however, may decompose if heated.

11. Toxicological information
General information: No data on possible toxicity effects have been found.
Information on likely routes of exposure
- Ingestion: No harmful effects expected in amounts likely to be ingested by accident.
- Inhalation: Limited inhalation hazard at normal work temperatures.
Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: No data available.

Dermal
Product: No data available.

Inhalation
Product: No data available.

Repeated dose toxicity
Product: not applicable

Skin Corrosion/Irritation
Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation
Product: No data available.

Respiratory or Skin Sensitization
Product: Not a skin sensitizer.

Carcinogenicity
Product: Based on available data, the classification criteria are not met.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified
   No carcinogenic components identified

Germ Cell Mutagenicity

   In vitro
   Product: not applicable

   In vivo
   Product: not applicable

Reproductive toxicity
   Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure
   Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure
   Product: Based on available data, the classification criteria are not met.

Aspiration Hazard
   Product: Based on available data, the classification criteria are not met.

Other effects: None known.

12. Ecological information

Ecotoxicity:

   Acute hazards to the aquatic environment:

   Fish
   Product: No negative effects on the aquatic environment are known.

   Aquatic Invertebrates
   Product: No negative effects on the aquatic environment are known.

Chronic hazards to the aquatic environment:

   Fish
   Product: No negative effects on the aquatic environment are known.

   Aquatic Invertebrates
   Product: No negative effects on the aquatic environment are known.

Toxicity to Aquatic Plants
   Product: No negative effects on the aquatic environment are known.

Persistence and Degradability

   Biodegradation
Product: Expected to be readily biodegradable.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Sodium azide (Na(N3)) No data available.

Other adverse effects: The product is not expected to be hazardous to the environment.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

DOTUN Number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
Packing Group: Not regulated.
Marine Pollutant: Not regulated.
Limited quantity: Not regulated.
Excepted quantity: Not regulated.
Special precautions for user: Not regulated.
IMDG
UN Number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es):
Class: Not regulated.
Subsidiary risk: Not regulated.
EmS No.: Not regulated.
Packing Group: Not regulated.
Environmental Hazards
Marine Pollutant: Not regulated.
Special precautions for user: Not regulated.

IATA
UN Number: Not regulated.
Proper Shipping Name: Not regulated.
Transport Hazard Class(es):
Class: Not regulated.
Subsidiary risk: Not regulated.
Packing Group: Not regulated.
Environmental Hazards
Marine pollutant: Not regulated.
Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>1000 lbs.</td>
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Not classified
Not classified

SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>1000 lbs.</td>
<td>500 lbs.</td>
</tr>
</tbody>
</table>
SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
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</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>1000 lbs.</td>
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</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>500 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act
No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List
<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
</tr>
</tbody>
</table>

US. Pennsylvania RTK - Hazardous Substances
No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision

Issue Date: 04/11/2018

Version #: 1.0

Revision Information:


Further Information: No data available.
Disclaimer:
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