Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier
- **Product Name**: Agencourt AMPure XP
- **Part Number**: A63880, A63881, A63882

1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Product Use**: For Research Use Only. See product literature for details.

1.3 Details of the supplier of the safety data sheet
- **Manufacturer**: Beckman Coulter, Inc.
  250 S. Kraemer Blvd
  Brea, CA 92821, U.S.A.
  Tel: 800-854-3633
- **EC REP Address**: Beckman Coulter Eurocenter S.A.
  22, rue Juste-Oliver, Case Postale 1044,
  CH-1260 Nyon 1, Switzerland.
  Telephone +41 (0)22 365 36 11
  Monday through Friday, 9:00 am to 7:00 pm
  e-mail address: SDSNT@beckman.com

1.4 Emergency telephone number
- **Telephone number (24H)**: Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887
- **Distributor and Emergency Phone No.**: Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture
- **Product Description**: Mixture
- **Classification according to EC 1272/2008 (CLP/GHS)**: Not classified as hazardous per EC 1272/2008 (CLP/GHS)
- **Classification according to EC Directives 1999/45/EC and 67/548/EEC**: Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)
- **Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**: Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2 Label Elements
- **According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS**: Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS
Section 2 Hazards Identification (Continued)

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredients:</th>
<th>Chemical Name</th>
<th>% by wt.</th>
<th>EU-67/548/EEC</th>
<th>EU 1272/2008 CLP/GHS</th>
<th>GHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>&lt;0.1%</td>
<td>T+;R28-32 N;R50/53</td>
<td>Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410</td>
<td>Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410</td>
<td>2, 8</td>
</tr>
</tbody>
</table>

2 - Substance with Community workplace exposure limits
8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation
If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.

Eye Contact
If product enters eyes, rinse eyes gently with water as a precaution.

Skin Contact
In case of skin contact, rinse with water as a precaution.

Ingestion
If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.
Section 5 Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flammable Properties</th>
<th>Nonflammable aqueous solution.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5.1 Extinguishing Media</strong></td>
<td>For large fires use extinguishing media suitable for surrounding fire. In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.</td>
</tr>
<tr>
<td><strong>5.2 Special hazards arising from the substance or mixture</strong></td>
<td><strong>Special Fire and Explosion Hazards</strong></td>
</tr>
<tr>
<td><strong>Hazardous Combustion Products</strong></td>
<td>No combustion products posing significant hazards are expected from this product (an aqueous solution).</td>
</tr>
<tr>
<td><strong>5.3 Advice for fire fighters</strong></td>
<td><strong>Protective Equipment</strong></td>
</tr>
<tr>
<td><strong>5.4 Additional information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

Section 6 Accidental Release Measures

| **6.1 Personal precautions, protective equipment and emergency procedures** | **Personal Precautions** | Use good laboratory procedures; avoid eye and skin contact. |
| **6.2 Environmental Precautions** | Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations |
| **6.3 Methods and material for containment and cleaning up** | **Spill and Leak Procedures** | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations. |
| **6.4 Reference to other sections** | Refer sections 8 and 13. |

Section 7 Handling and Storage

| **7.1 Precautions for safe handling** | Use good laboratory procedures; avoid eye and skin contact. |
| **7.2 Conditions for safe storage, including any incompatibilities** | To maintain product quality, store according to the instructions in the product labeling. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10). |
| **7.3 Specific end uses** | No further relevant information available. |
Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA
None established

ACGIH
Sodium Azide
CAS # 26628-22-8
0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid) (vapor)

DFG MAK
Sodium Azide
CAS # 26628-22-8
0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK (inhalable fraction)

Ireland
Sodium Azide
CAS # 26628-22-8
0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL; Potential for cutaneous absorption

IOELVs
Sodium Azide
CAS # 26628-22-8
Possibility of significant uptake through the skin; 0.3 mg/m³ STEL; 0.1 mg/m³ TWA

NIOSH
None established

Japan
None established

8.2 Exposure controls

Engineering Controls
No special engineering controls are required. Use with good general ventilation.

Eye Protection
Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection
Wear protective clothing and impervious gloves, as appropriate.

Respiratory Protection
Under normal conditions, the use of this product should not require respiratory protection.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>≈ 1.127</td>
</tr>
<tr>
<td>(Water=1.0)</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Brown</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water</td>
</tr>
<tr>
<td>Transparency</td>
<td>Clear with brown precipitate</td>
</tr>
<tr>
<td>Organic</td>
<td>Miscible</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Water</td>
<td>Not determined</td>
</tr>
<tr>
<td>n-octanol/water</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>8.0 - 8.4</td>
</tr>
<tr>
<td>Auto-ignition Temp.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
Section 9 Physical and Chemical Properties (Continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
<td>Percent Volatiles</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not applicable</td>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not determined</td>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other Information

No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical Stability
The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions
This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

10.4 Conditions to Avoid
Avoid contact with incompatible materials.
Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials
Metals and metallic compounds

10.6 Hazardous Decomposition Products
No decomposition products posing significant hazards would be expected from this product.

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Route</th>
<th>LD50/MAH (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>Oral</td>
<td>Rat 27 mg/kg</td>
</tr>
</tbody>
</table>

Primary Routes of Exposure
Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation
Not classified based on available data.

Serious eye damage/eye irritation
Not classified based on available data.

Respiratory/skin sensitization
Not classified based on available data.
Section 11 Toxicological Information (Continued)

<table>
<thead>
<tr>
<th>Toxicological Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified based on available data.</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Not classified based on available data.</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Not classified based on available data.</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
<td>Not classified based on available data.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified based on available data.</td>
</tr>
<tr>
<td>Other Information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

Section 12 Ecological Information

### 12.1 Ecotoxicity
#### Fresh Water Species
- Sodium Azide
  - CAS # 26628-22-8
- Microtox
- Water Flea
- Fresh Water Algae

<table>
<thead>
<tr>
<th>Species</th>
<th>LC50 (mg/L)</th>
<th>Exposure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oncorhynchus mykiss</td>
<td>0.8</td>
<td>96 h</td>
</tr>
<tr>
<td>Lepomis macrochirus</td>
<td>0.7</td>
<td>96 h</td>
</tr>
<tr>
<td>Pimephales promelas</td>
<td>5.46</td>
<td>96 h [flow-through]</td>
</tr>
</tbody>
</table>

Microtox No information available.
Water Flea No information available.
Fresh Water Algae No information available.

### 12.2 Persistence and degradability
Not determined for the product.

### 12.3 Bioaccumulation
Not determined for the product.

### 12.4 Mobility in soil
Not determined for the product.

### 12.5 Results of PBT and vPvB assessment
Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

### 12.6 Other Adverse Effects
This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

Section 13 Disposal Considerations

### 13.1 Waste treatment methods
#### Product Waste Disposal
Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information. Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).
To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.
Package disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

14.1 UN/ID Number: Not regulated for transportation
14.2 Shipping Name: Not regulated for transportation
14.3 Hazard Class: Not regulated for transportation
14.4 Packing Group: Not regulated for transportation
14.5 Environmental Hazards: Not regulated for transportation
14.6 Special Precautions for user: None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal and State Regulations

SARA 313
Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

CERCLA RG’s, 40 CFR 302.4
Sodium Azide is listed.

California Proposition 65
No ingredients listed.

Massachusetts MSL
Sodium Azide is listed.

New Jersey Dept. of Health RTK List
Sodium Azide is listed.

Pennsylvania RTK
Sodium Azide is listed.

EU Regulations
This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.
No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)
Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)
Section 15 Regulatory Information (Continued)

Canada
This product does not meet WHMIS criteria for hazardous materials.

PIN
Not applicable

Ingredients on Ingredient Disclosure List
Sodium Azide

Ingredients with unknown toxicological properties
None

15.2 Chemical Safety Assessment  A Chemical Safety Assessment has not been carried out.
Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

<table>
<thead>
<tr>
<th>Beckman Coulter Safety Rating</th>
<th>Flammability: 0</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Health: 1</td>
<td>0= None</td>
</tr>
<tr>
<td></td>
<td>Reactivity with Water: 0</td>
<td>1=Slight</td>
</tr>
<tr>
<td></td>
<td>Physical Contact: 1</td>
<td>2=Caution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3=Severe</td>
</tr>
</tbody>
</table>

Revision Changes
Revised manufacturer’s address in Section 1
Updated Section 4, 8, 11.
Updated Section 16.

Hazard Class, hazard statements and risk phrase description from section 3

N - Dangerous for the environment
T+ - Very toxic
R28 Very toxic if swallowed.
R32 Contact with acids liberates very toxic gas.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
H300 - Fatal if swallowed.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
## Section 16 Other Information (Continued)

<table>
<thead>
<tr>
<th>Abbreviations and Acronyms</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>ADR and RID</td>
<td>European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail</td>
</tr>
<tr>
<td>CERCLA</td>
<td>The Comprehensive Environmental Response, Compensation, and Liability Act</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification, Labeling and Packaging</td>
</tr>
<tr>
<td>DFGMAK</td>
<td>Republic Germany’s maximum exposure limit</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>HCS</td>
<td>Hazard Communication Standard</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA DGR</td>
<td>International Air Transport Association Dangerous Goods Regulation</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>IOELVs</td>
<td>European Unions’ Indicative Occupational Exposure Limit Values</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent bioaccumulative and toxic substances</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>TDG</td>
<td>Canadian Transportation Of Dangerous Goods Regulations.</td>
</tr>
<tr>
<td>UN GHS</td>
<td>United Nations Globally Harmonized System</td>
</tr>
<tr>
<td>US DOT</td>
<td>United States Department of Transportation</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Material Information System</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very persistent and very bioaccumulative substances</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration, 50%</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose, 50%</td>
</tr>
</tbody>
</table>

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