1. **ARTWORK:**
   1.1. **Development program:** MS Word
   1.2. **Colors:** Specified per source artwork.
   1.3. **Variable text:** N/A
   1.4. **Special instructions:** N/A
   1.5. **Master artwork:** The master artwork file is controlled in its development format (.docx) and electronic distribution format (.pdf) as part of this specification. A non-scaled copy of the master artwork is provided at the end of this specification for viewing purposes.

2. **PRODUCTION (For Development Format Only):**
   2.1. **Label Stock:** Part number: 5-00-055
   2.2. **Dimension:** Final label dimensions are specified in inches by height than width and are defined by the label stock.
       2.2.1. 8 ½ x 11
   2.3. **Artwork:** Reference section 1.5.
       2.3.1. For in-line label production use the master artwork file formatted for the label printing hardware (.doc).
       2.3.2. For externally produced labels use the master artwork file in development format (.doc).
       2.3.3. Artwork shall have a minimum .06” border from the edge of the label stock.
   2.4. **Printing method:** Laser
   2.5. **Special settings:** Double-sided, staple upper left hand corner
   2.6. **Variable text:** Scale font size to be consistent with adjacent text. Acceptable font for variable text: N/A
       2.6.1. **Expiration Date:** N/A
       2.6.2. **Lot/Serial Number:** N/A
       2.6.3. **Barcode:** N/A

3. **INSPECTION (For Development Format Only):**
   3.1. **Printing:** Must be legible, with no smudges, shadows or voids in the print.
   3.2. **Certificate of Conformance (CofC):** Only required for purchased labels. Must certify to the label stock part number/version (per 2.1) used for production as well as the finished label specification number and revision.
       3.2.1. Certificate of Compliance: RoHS = Not Applicable
   3.3. **Attributes:** Verify in accordance with this specification using the method defined in the Inspection Procedure 21-00-017
       3.3.1. Confirm appropriate label stock was used in production per section 2.1
       3.3.2. Confirm the current label specification number and revision was produced in accordance with the job request or purchase order.
3.4. **Variable text**: Confirm all variable text information in accordance with the label job request or purchase order

3.5. **Barcode**: N/A

4. **STORAGE AND HANDLING (For Development Format Only)**:
   
   4.1. **Shelf life**: Printed labels not applied and still on the backing have a shelf life of 12 months from date of manufacture or otherwise stated by the label supplier. If 5-00-055 paper stock is specified in section 2, no shelf life date is required. Labels applied to product shall maintain the same shelf life of that product.

   4.2. **Storage**: Room temperature, do not store in direct sunlight

5. **DISTRIBUTION CONTROL (For Electronic Distribution Format Only)**:

SAFETY DATA SHEET

Section 1: Identification

Product identifier
Product name: Vial, Antibody, CD3
Product No.: 60400

Recommended use and restriction on use
Recommended use: Reserved for industrial and professional use.
Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information
Manufacturer
Company Name: ThermoGenesis Corp.
Address: 2711 Citrus Road
Rancho Cordova, CA 95742
Telephone: 1 916 858 5100 or 1 800 783 8357
Fax:
Contact: Customer Service
E-mail: customerservice@thermogenesis.com
Emergency telephone number: 1 916 549 6362

Section 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
Not applicable.

Other hazards which do not result in GHS classification: None.
**Section 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 (NaN₃)</td>
<td>Sodium azide</td>
<td>26628-22-8</td>
<td>0.089%</td>
</tr>
</tbody>
</table>

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

**Section 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.

**Section 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 firefighting 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.

Section 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 data.

**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.

Section 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.
## Control Parameters

### Occupational Exposure Limits

<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 HN3</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)) – as HN3</td>
<td>Ceiling</td>
<td>0.1 ppm</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>AN ESL</td>
<td>0.2 µg/m³</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)) – as NaN3</td>
<td>Ceiling</td>
<td>0.1 ppm</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3)) – as NaN3</td>
<td>Ceiling</td>
<td>0.29 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3)) – as NaN3</td>
<td>Ceiling</td>
<td>0.11 ppm</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
</tr>
<tr>
<td>Sodium azide (Na(N3)) – as NaN3</td>
<td>Ceiling</td>
<td>0.3 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
</tbody>
</table>

### 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.

Section 9: Physical and Chemical Properties

Appearance
   Physical state: Liquid
   Form: Liquid
   Color: Clear
   Odor: Odorless
   Odor threshold: No data available.
   pH: 7.4
   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
Section 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.

Section 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.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**
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.

**Section 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.

Section 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.

Section 14: Transport Information

DOT UN 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.

Section 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>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Not listed.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (Na(N3))</td>
<td>1000 lbs.</td>
</tr>
</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.

### Section 16: Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue Date:</th>
<th>03/21/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision:</td>
<td>A</td>
</tr>
<tr>
<td>Revision Information:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Further Information:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

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