SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Michel’s Transport Medium
SYNONYMS: None
PRODUCT CODES: ES3270, ES3271

MANUFACTURER: Azer Scientific, Inc.
ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

CHEMTREC PHONE: 800-424-9300
SUPPORT: 610-524-5810
FAX: 610-901-3046

PRODUCT USE: Tissue Transport Medium
PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

Signal Word: Warning!

<table>
<thead>
<tr>
<th>Hazard Phrases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary Phrases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P260</td>
<td>Avoid breathing dust/fume/gas/mist/vapors/spray.</td>
</tr>
<tr>
<td>P304+P340</td>
<td>IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing.</td>
</tr>
<tr>
<td>P305+P351+P338</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td>P273</td>
<td>Use personal protective equipment as required.</td>
</tr>
</tbody>
</table>

SECTION 2 NOTES:

OSHA Hazards
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>% WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate</td>
<td>7783-20-2</td>
<td>42</td>
</tr>
<tr>
<td>Magnesium Sulfate</td>
<td>10034-99-8</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Potassium Citrate</td>
<td>6100-05-6</td>
<td>&lt;1</td>
</tr>
<tr>
<td>N-ethylmalamide</td>
<td>128-53-0</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

INGESTION: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Not Flammable

FLASH POINT: Not available

AUTOIGNITION TEMPERATURE: Not available

NFPA HAZARD CLASSIFICATION
- HEALTH: 1
- FLAMMABILITY: 0
- REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION
- HEALTH: 2
- FLAMMABILITY: 0
- REACTIVITY: 0
- PROTECTION:

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: None

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes under fire conditions

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES
ACCIDENTAL RELEASE MEASURES:

Spill: Absorb with an inert dry material such as vermiculite and place in an appropriate waste disposal container.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Long term storage 2-8°C

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

SKIN PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

EXPOSURE GUIDELINES:

<table>
<thead>
<tr>
<th>Component</th>
<th>Source</th>
<th>Type</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate</td>
<td>ACGIH TLV</td>
<td>No information available</td>
<td>Absorbed through skin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA PEL</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear

ODOR: Odorless

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Neutral

BOILING POINT: 212°F
MELTING POINT: Not Available
FREEZING POINT: Not Available
VAPOR PRESSURE (mmHg): 96 mm Hg
VAPOR DENSITY (AIR = 1): 1.11
EVAPORATION RATE (Ether=1): >1
SOLUBILITY IN WATER: Soluble in water
MOLECULAR WEIGHT: Mixture
VIScosity: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable.

CONDITIONS TO AVOID (STABILITY): Under normal conditions of storage and use, hazardous reactions will not occur.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, Chromic anhydride, perchloric acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity
   Oral LD50
   no data available
   Inhalation LC50
   no data available
   Dermal LD50
   no data available
   Other information on acute toxicity
   no data available
   Skin corrosion/irritation
   no data available
   Serious eye damage/eye irritation
   Eyes: no data available
   Respiratory or skin sensitization
   no data available
   Germ cell mutagenicity
   no data available
   Specific target organ toxicity - single exposure (Globally Harmonized System)
   Specific target organ toxicity - single exposure (Category 3)
   Specific target organ toxicity - repeated exposure (Globally Harmonized System)
   no data available
   Aspiration hazard
   no data available
   Potential health effects
   Inhalation May be harmful if inhaled.
   Ingestion May be harmful if swallowed
   Skin Causes skin irritation.
   Eyes Causes eye irritation.
   Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**ROUTES OF ENTRY:** Skin/eye contact, inhalation, and ingestion.

**ACUTE HEALTH HAZARDS:** See above, potential health effects.

**TARGET ORGANS:** Respiratory system, skin, eyes

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY**
no data available

**PERSISTENCE AND DEGRADABILITY**
no data available

**BIOACCUMULATIVE POTENTIAL**
no data available

**MOBILITY IN SOIL**
no data available

**PBT and vPvB assessment**
no data available

**SECTION 12 NOTES:**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA HAZARD CLASS:**

**SECTION 13 NOTES:**

**SECTION 14: TRANSPORTATION INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION:** Not Regulated

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENT:**

**ENVIRONMENTAL HAZARDS:**

**AIR TRANSPORTATION:** Not Regulated

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENTS:**

**OTHER AGENCIES:**

**Canadian TDG:** Not regulated / **Environmental Hazards:** No
SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

United States
HCS Classification: Toxic material
   Irritating material
   Target organ effects

U.S. Federal regulations:
   United States inventory (TSCA 8a) IUR: Partial exemption
   TSCA 8(d) H and S data reporting:
   TSCA (Toxic Substance Control Act): No products were found.
   SARA 302/304/311/312 extremely hazardous substances: No products were found.
   SARA 302/304 emergency planning and notification: No products were found.
   SARA 302/304/312 hazardous chemicals: No products were found.
   SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
   Clean Water Act (CWA) 307:
   Clean Water Act (CWA) 311:
   Clean Air Act (CAA) 112 accidental release prevention: No products were found.
   Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
   Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

DEA List I & II Chemicals
(Precursor Chemicals): Not listed

RTK States: None

California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

CANADA
WHMIS (Canada): Not Classified

Canadian lists:
   CEPA Toxic substances: None of the components are listed.
   Canadian ARET: None of the components are listed.
   Canadian NPRI: The following components are listed:
      Alberta Designated Substances: None of the components are listed.
      Ontario Designated Substances: None of the components are listed.
      Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL:
All components are listed or exempted.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)
DISCLAIMER: This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

PREPARATION INFORMATION: Prepared 12/17/2015 REV1