
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!

Hazard Phrases	
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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

SECTION 2 NOTES:**OSHA Hazards**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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Safety Data Sheet – Michel's Transport Medium

12/2015

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% WT
Ammonium Sulfate	7783-20-2	42
Magnesium Sulfate	10034-99-8	<1
Potassium Citrate	6100-05-6	<1
N-ethylmaleimide	128-53-0	<1

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

SDS

Safety Data Sheet – Michel's Transport Medium

12/2015

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:

Component	Source	Type	Value	Note
Ammonium Sulfate	ACGIH TLV		No information available	Absorbed through skin
	OSHA PEL		No information available	

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

SDS

Safety Data Sheet – Michel's Transport Medium

12/2015

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

EU ADR/RID: Not regulated / Environmental Hazards: No

IATA/ICAO: 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 302/304/311/312 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.)

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Safety Data Sheet – Michel's Transport Medium

12/2015



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.

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