

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** Sterile Phosphate Buffered Saline**SYNONYMS:** Buffered Sterile Saline Solution, 0.85%, sterile Isotonic Saline, Sterile PBS, Sterile phosphate buffered saline**PRODUCT CODES:** ES45048**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:** Laboratory Reagent**PREPARED BY:** RF**SECTION 1 NOTES:****SECTION 2: HAZARDS IDENTIFICATION****GHS CLASSIFICATION:** Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)**GHS Label elements:**

Pictogram: none

Signal word: none

OSHA HAZARDS: No known OSHA hazards**SECTION 2 NOTES:** Although this product does not normally require specific hazard precautions, chemical users should always take care to minimize personnel exposure and workplace contamination.**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Water	7732-18-5	~99
Sodium Chloride	7647-14-5	<1
Potassium Chloride	7447-40-7	<0.5
Disodium Phosphate	7558-79-4	<1
Monosodium Phosphate	7778-77-0	<0.5
Calcium Chloride	10043-52-4	<0.5

SECTION 3 NOTES:**SECTION 4: FIRST AID MEASURES****EYES:** Check for and remove any contact lenses. Flush eyes with plenty of water as a precaution. Get medical attention if symptoms occur.**SKIN:** In case of contact, flush skin with water. Remove and wash clothing before reuse as a precaution.**INGESTION:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.
Get medical attention if you feel unwell.**INHALATION:** Not a significant source of exposure.

SECTION 4 NOTES:**SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABILITY OF THE PRODUCT: Not a flammable liquid

FLASH POINT: Not available

AUTOIGNITION TEMPERATURE: Not available

NFPA HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Use extinguishing material suitable for surrounding fire.

NOT SUITABLE: N/A

SPECIAL FIRE FIGHTING PROCEDURES: No special firefighting procedures for this solution.

HAZARDOUS DECOMPOSITION PRODUCTS: No known hazardous decomposition products.

SECTION 5 NOTES:**SECTION 6: ACCIDENTAL RELEASE MEASURES****ACCIDENTAL RELEASE MEASURES:**

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Mop and dry floor to avoid slip and fall hazard in accordance with good industrial hygiene and safety practice.

SECTION 6 NOTES:**SECTION 7: HANDLING AND STORAGE**

HANDLING: Do not ingest. Avoid contact with eyes, skin and clothing. Do not reuse container.

STORAGE: Keep container tightly closed until ready for use. Store 15-30°C. Avoid excessive heat or direct sunlight.

SECTION 7 NOTES:**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING CONTROLS: General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

RESPIRATORY PROTECTION: No special equipment required.

EYE PROTECTION: Glasses or splash goggles recommended in accordance with good industrial hygiene and safety practice.

SKIN PROTECTION: Handle with gloves. Wash and dry hands.

EXPOSURE GUIDELINES: N/A

SECTION 8 NOTES:**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear, colorless

ODOR: Odorless

PHYSICAL STATE: liquid

pH AS SUPPLIED: 7.3±0.2

BOILING POINT: 100°C

MELTING POINT: Not available

FREEZING POINT: Not available

VAPOR PRESSURE (mmHg): Not available

VAPOR DENSITY (AIR = 1): Not available

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: Soluble in water

MOLECULAR WEIGHT: Mixture

VISCOSITY: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

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

INCOMPATIBILITY (MATERIAL TO AVOID): Not available

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No known hazardous decomposition products.

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Numerical Measures: No data available

Carcinogenicity: No components are classified as human carcinogen.

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

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: Ingestion of large amount may cause GI disturbance

Skin: May cause mild skin irritation.

Eyes: May causes mild eye irritation.

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

TARGET ORGANS: Not available.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: No known environmental toxicity.

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available.

PBT and vPvB ASSESSMENT: Not required.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: As supplied, not regulated for waste disposal. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

RCRA HAZARD CLASS: Not classified

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated

TDG: Not Regulated

IATA: Not Regulated

IMDG/IMP: Not Regulated

SECTION 15: REGULATORY INFORMATION

United States

HCS Classification: Not Classified

U.S. Federal regulations:

TSCA 8(a) IUR: Partial exemption

United States inventory (TSCA 8b): Listed on inventory.

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: No products were found.

SARA 313 Form R - Reporting: No products were found.

DEA List I & II Chemicals

(Precursor Chemicals): Not Listed

RTK STATES: None

California Prop. 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

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: 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.

International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

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.

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Reviewed: