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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: YSI 3887 Nitrate Standard, 100 ppm as N
CATALOG NUMBER: YSI-3887
Date of this revision: 08/01/2011

1. CHEMICAL PRODUCT IDENTIFICATION

Trade name: None
Chemical Formula: Solution in water
Formula CAS No: Not applicable
Molecular Weight: Not applicable

2. COMPOSITION

Component	CAS#	Approx%
Water	7732-18-5	>98
Potassium Nitrate	7757-79-1	<1
Magnesium Sulfate Heptahydrate	10034-99-8	<1
Gentamycin Sulfate	1405-41-0	<0.01

3. HAZARD IDENTIFICATION

May be harmful if swallowed. May be irritating to skin, eyes, and mucous membranes.
Do not get in eyes, on skin or on clothing. Remove and wash contaminated clothing before re-use.
Minimal contact, as with all chemicals, is a good policy to follow.
Routes of entry: Ingestion.
Carcinogenicity: This material is not listed (IARC, NTP, OSHA) as a cancer causing agent.

4. FIRST AID MEASURES

Ingestion: If swallowed, wash out mouth with water. Call a physician.
Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin: Immediately flush skin with plenty of water. Get medical attention if irritation develops.

5. FIRE FIGHTING MEASURES

Flash Point: Not Applicable.
Flammable Limits: (LEL): Not applicable.
Flammable Limits: (UEL): Not applicable.
Fire: No special precautions required.
Fire Extinguishing Media: Use any suitable means for surrounding materials.
Explosion Hazards: Thermal decomposition may produce toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Evacuate area of non-essential personnel. Eliminate ignition sources.
Scoop up material and transfer to a container for proper disposal.
Ensure compliance with Federal, State and local regulations.

7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid contact with eyes and skin.



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8. EXPOSURE CONTROLS

Airborne Exposure Limits: None established for product.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this material.

However, if conditions of use create discomfort to a worker, a local exhaust should be considered.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to mist exists, a dust/mist respirator may be worn. For emergencies, a self contained breathing apparatus may be necessary.

Skin protection: Rubber gloves and lab coat, apron or overalls.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid.

Odor: None

Solubility: Infinitely soluble in water.

Boiling Point: Essentially the same as water.

Melting Point: Essentially the same as water.

Specific Gravity: 1.0

Vapor Density (Air =1): Essentially the same as water.

Vapor Pressure (mm Hg): Essentially the same as water.

Evaporation Rate: Essentially the same as water.

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: When heated to decomposition, can emit toxic gases.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: Concentrated acids, heavy metals, phosphites, organic compounds.

11. TOXICOLOGICAL INFORMATION

No toxicity data for product.

For 100% Potassium Nitrate (product contains <1%):

 orl-rbt LD50: 2680 mg/kg

12. ECOLOGICAL INFORMATION

None found.

13. DISPOSAL CONSIDERATIONS

EPA Waste Number: None

Ensure compliance with Federal, State and local regulations.

14. TRANSPORT INFORMATION

DOT Shipping Name: Not regulated.

DOT Number: None.

15. REGULATORY INFORMATION

The CAS numbers of all components of this solution are listed on the TSCA Inventory.



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16. OTHER INFORMATION

NFPA Hazard Ratings:

Health	1
Flammability	0
Reactivity	0
Special Hazards	None Known

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

END OF MATERIAL SAFETY DATA SHEET