

## 1. IDENTIFICATION:

**Product Name:** 4000 NTU FORMAZIN STOCK SOLUTION, FORMAZIN KIT  
**CAS Number:** Mixture  
**Catalog Numbers:** 50040 70914  
**Product Use:** Analytical \ Laboratory Reagent  
**Manufacturer:** HF Scientific, Inc  
**Address:** 3170 Metro Parkway Fort Myers, Fl 33916


**General Information:** 888-203-7248  
**Transportation Emergency Number:** CHEMTREC® 24 hr US 800-424-9300  
 CHEMTREC® 24 hr International 703-527-3887

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Health	Environmental	Physical
Carcinogenicity: Category 1 Acute Toxicity: Category 5 Skin Irritation: Category 3 Skin Sensitizer: Category 1B Eye Irritation: Category 2B	Aquatic Toxicity: None	Flammable Liquid: No

### GHS Label

Pictogram:	Signal Word:
	<b>DANGER</b> <b>WARNING</b>
Hazard Statements	Precautionary Statements
May be harmful if swallowed May be harmful in contact with skin Causes mild skin irritation May cause allergic skin reaction Causes eye irritation May cause cancer	OBTAIN special instructions before use. DO NOT HANDLE until all safety precautions have been read and understood. IF ON SKIN: Flush with Plenty of Water for at Least 15 Minutes. Call a Physician if irritation develops. IF IN EYES: Irrigate Immediately with Large Quantity of Water for at Least 15 Minutes. Call a Physician if irritation develops. IF EXPOSED or concerned: flush or irrigate with plenty of water and call a physician. DISPOSE OF CONTENTS in accordance with local, regional, national and international regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Deionized Water	7732-18-5	≥ 90%
Hexamethylenetetramine	100-97-0	≤ 10%
Hydrazine Sulfate	10034-93-2	≤ 1%

## 4. FIRST AID MEASURES

**Eye Contact:** : Irrigate Immediately with Large Quantity of Water for at Least 15 Minutes. Call a Physician if Irritation Develops.  
**Skin Contact:** Flush with Plenty of Water for at Least 15 Minutes. Call a Physician if Irritation Develops.  
**Inhalation:** Remove to Fresh Air. Give Artificial Respiration if Necessary. If Breathing is Difficult, Give Oxygen.  
**Ingestion:** Induce Vomiting if Conscious. Never Give Anything by Mouth to an Unconscious Person. Call Physician Immediately.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use Media Appropriate to Surrounding Fire Conditions.  
**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.  
**Unusual Fire and Exposure Hazards:** During a fire, this product decomposes to form toxic gases.  
**Combustion Products:** Toxic fumes of: ammonia formaldehyde nitrogen oxides. Carbon monoxide, carbon dioxide.  
**NFPA Classification** HEALTH: 2 FLAMMABLE: 0 REACTIVITY: 0

## 6. ACCIDENTAL RELEASE MEASURES

Absorbed Spilled Liquid with a Non-Reactive Sorbent Material and Place in Container for Pick-Up. Prevent Large Spills From Entering Drainage Systems or Bodies of Water. Clean Contaminated Area with Soap and Water Once Spill Has Been Removed.

## 7. HANDLING AND STORAGE

**Handling:** Avoid Contact with Eyes and Skin. Do Not Breathe Mist or Vapors. Wash Hands Thoroughly After Handling.  
**Storage:** Store Between 5-25°C. Keep Away From Direct Sunlight. Protect From Heat.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** Not established  
**Engineering Controls:** Maintain General Industrial Hygiene Practices When Using This Product.

### Personal Protective Equipment:

**Eyes:** Safety glasses  
**Skin:** Lab Coat, and Latex or Nitrile Gloves

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flashpoint:** N/A  
**Autoignition Temperature:** N/A  
**Boiling Point:** ~ 100°C (212°F)  
**Melting Point:** N/A  
**Vapor Pressure:** N/A

**Vapor Density:** N/A  
**% Solubility in Water:** 100%

**Pour Point:** N/A  
**Molecular Formula:** Mixture  
**Odor / Appearance:** Turbid, milky suspension

**Lower Flammability Limit:** N/A  
**Upper Flammability Limit:** N/A  
**Specific Gravity:** 1.002  
**% Volatile:** N/A  
**Evaporation Rate (Water=1):** 0.63  
**Viscosity:** N/A  
**Octanol / Water Partition Coefficient:** N/A  
**pH:** 6.4  
**Molecular Weight:** Mixture

## 10. STABILITY AND REACTIVITY

**Stability / Incompatibility:** Product Stable When Stored Under Proper Conditions. Avoid Extreme Temperatures. Incompatible with Oxidizers.  
**Hazardous Reactions / Decomposition Products:** Hazardous Polymerization Will Not Occur. Heating to Decomposition Releases Ammonia, Carbon Monoxide, Formaldehyde, and Nitrogen Oxides.

## 11. TOXICOLOGICAL INFORMATION

**Symptoms of Overexposure:** Irritation and redness of eye, skin and gastrointestinal tract.  
**Acute Effects:** Irritation and redness of eyes, skin and gastrointestinal tract.  
**Eye Contact:** Irritation and redness of eyes.  
**Skin Contact:** Irritation and redness of skin  
**Inhalation:** N/A  
**Ingestion:** Irritation of the gastrointestinal tract.  
**Target Organs Effects:** Eyes and Skin  
**Chronic Effects:** Formazin Suspensions Can Contain Residual Hydrazine Sulfate, Which is a Carcinogen.  
**Medical Conditions Aggravated by Exposure:** Pre-Existing Eye or Skin Conditions  
**Acute Toxicity Values:** N/A

## 12. ECOLOGICAL INFORMATION

No Ecological Data Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

## 14. TRANSPORT INFORMATION

**US DOT (United States Department of Transportation):** Not regulated  
**IATA (International Air Transport Association):** Not regulated  
**IMO (International Maritime Organization):** Not regulated

## 15. REGULATORY INFORMATION

**CERCLA:** None reported  
**SARA/Title III:** Acute Health Hazard. Chronic Health Hazard  
**TSCA Inventory:** All Ingredients Listed  
**Cal. Proposition 65:** Contains an ingredient (Hydrazine Sulfate) known to the state of California to cause cancer.  
**WHMIS:** D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.  
**DSL:** All ingredients listed  
**NDSL:** All ingredients listed

**16. OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

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