



SAFETY DATA SHEET

1. Chemical Product and Company Identification

Description: 4000 NTU Formazin Stock Solution, Formazin Kit
Product Code: 3822-4000, 159 001 592, 3822-4002, 159 001 591
Product Type: Mixture
Application: Analytical / Laboratory Reagent

Manufacturer/Supplier Information

Manufactured for and SDS prepared by:
Georg Fischer Signet LLC
3401 Aero Jet Ave
El Monte, CA 91731

Date Prepared: 11/26/2018

For additional health, safety or regulatory information, call (626) 571-2770

**For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night**

DOMESTIC NORTH AMERICA 800-424-9300

**INTERNATIONAL, REFER TO THE INFORMATION CONTAINED HEREIN AND CALL YOUR
LOCAL GF OFFICE**

2. Hazard(s) Identification

GHS Classification

Health:

Carcinogenicity: Category 1
Acute Toxicity: Category 5
Skin Irritation: Category 3
Skin Sensitizer: Category 1B
Eye Irritation: Category 2B

Environmental:

Aquatic Toxicity: None

Physical:

Flammable Liquid: No

GHS Label Elements:

Pictogram:



Signal Word: DANGER

Hazard Statements: May be harmful if swallowed. May be harmful in contact with skin.
May cause allergic skin reaction. Causes eye irritation. May cause cancer.

Precautionary Statements:

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 quantities 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

Deionized Water

CAS Number: 7732-18-5
Percent: ≥ 90

Hexamethylenetetramine

CAS Number: 100-97-0
% w/v: ≤ 10

Hydrazine Sulfate

CAS Number: 10034-93-2
% w/v: ≤ 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 Procedures

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.
Hazardous Combustion Products: Toxic fumes of ammonia, formaldehyde, nitrogen oxides, carbon monoxide, carbon dioxide.

NFPA

Health	Flammability	Instability	Physical Hazards
1	0	0	N/A

6. Accidental Release Procedures

Methods for Containment and Clean Up: Absorb 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 Measures: Maintain general industrial/hygiene practices when using this product.

Personal Protective Equipment

Eye/Face Protection: Wear Safety Glasses

Skin and Body Protection: Lab Coat and Latex or Nitrile Gloves

9. Physical and Chemical Properties

Flashpoint: Not applicable

Autoignition Temperature: Not applicable

Boiling Point: 100 °C

Melting Point: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Percent Solubility in Water: 100%

Pour Point: Not applicable

Molecular Formula: Mixture

Odor/Appearance: Turbidity, milky suspension

Lower Flammability Limit: N/A upper flammability limit: N/A

Specific Gravity: 1.002

Percent Volatile: Not applicable

Evaporation Rate (water = 1): 0.63

Viscosity: Not applicable

Octanol / Water Partition Coefficient: Not applicable

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 is skin and gastrointestinal tract.
Eye Contact:	Irritation and redness of eyes.
Skin Contact:	Irritation and redness of skin.
Inhalation:	Not applicable
Ingestion:	Irritation of the gastrointestinal tract.
Target Organs effects:	Eyes, skin
Chronic Effects:	Formazin suspensions can cause residual hydrazine sulfate, which is a carcinogen.
Medical Conditions	
Aggravated:	Pre-existing eye or skin conditions.
Acute Toxicity Values:	Not applicable

12. Ecological Information

Product Ecological Information: No ecological data available for this product.

13. Disposal Considerations

NOTICE (Disposal): Dispose of in a manner consistent with international, federal, state and local regulations.

14. Transportation Information

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

15. Regulatory Information

CERCLA:	None reported
SARA / Title III:	Acute health hazard. Chronic health hazard.
TSCA:	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

It is the responsibility of the Distributor, Dealer, or Agent to provide a current copy of the SDS to the Consumers of Georg Fischer Signet LLC products. The information contained herein is presented in good faith and has been compiled from sources believed to be reliable. It represents the best information currently available to us. No warranty expressed or implied, or merchantability, fitness or otherwise is made and we assume no liability resulting from its use. This information is offered for your consideration and users should make their own investigation and verification to determine the suitability of the information for their particular purposes. In no event shall Georg Fischer Signet LLC, the parent company or its subsidiaries 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, however arising, even if Georg Fischer Signet LLC has been advised of the possibility of such damages. This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.

Revision

Date of latest revision: 11/28/2018
Responsibility for SDS: S.K. Wells

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