



# MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

## MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

### 1. Product Identification

**Product Code:** 6195

**Product Description:** Formazin Standard, 4000 NTU

**Manufactured By:** LaMotte Company  
802 Washington Avenue  
Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	10034-93-2 Hydrazine Sulfate	0.5	N/E	1 mg/cubic m
Yes	100-97-0 Hexamethylenetetramine (Methenamine)	5	N/E	N/E
No	7732-18-5 Water	to 100%		

Note: The two hazardous ingredients listed above react completely to form Formazin, a non-hazardous product.

This Formazin Std. solution contains little or no residual hydrazine sulfate or hexamethylene tetramine--<0.1%

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### **3. Hazards Overview**

**Primary Route Of Entry:** Skin

Large doses by mouth can cause GI irritation. May cause skin irritation.

#### **HMIS Hazard**

**Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least**

**Health: 1      Flammability: 0      Reactivity: 0**

**Carcinogenicity:** Yes: NTP OSHA IARC

#### **Other Health Related Comments:**

This product may contain 0 - 0.1% hydrazine sulfate, a chemical known to the state of California to cause cancer.

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### **4. First Aid Measures**

**Eye Contact:** Flush with water for 15 minutes.

**Skin Contact:** Flush skin thoroughly. Wash with soap and water.

**Ingestion:** Induce vomiting. Consult physician.

**Inhalation:** N/A

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### **5. Fire Fighting Measures**

**Flash Point (Method Used):** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Dry chemical or CO2

**Special Fire Fighting Procedures:** N/A

**Unusual Fire & Explosion Hazard:** N/A

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### **6. Accidental Release Measures**

Small quantity: Mop up and wash down drain with water. Large quantity: Absorb on spill pads or inert material and dispose of as hazardous waste according to federal, state and local regulations.

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## **7. Handling & Storage**

Store in cool, dry, storage area.

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## **8. Exposure Controls/Personal Protection**

### **Ventilation**

Normal

### **Protection When Handling**

Gloves

**Work/Hygenic Practices:** Avoid contact with skin. Wash after handling.

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## **9. Physical & Chemical Properties**

<b>Appearance:</b>	Cloudy Colorless Liquid	<b>Vapor Density:</b>	<1 (Air=1)
<b>Solubility In Water:</b>	Insoluble	<b>Vapor Pressure:</b>	<17 mm Hg @ 20 deg C
<b>Odor:</b>	None	<b>Boiling Point:</b>	Unknown
<b>pH:</b>	6	<b>Melting Point:</b>	N/A

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** Heat

**Incompatibility (Materials To Avoid):** Oxidizers, chromates, strong acids

**Hazardous Decomposition Products:** SO<sub>x</sub>, NH<sub>3</sub>, NO<sub>x</sub>, CO<sub>x</sub>, formaldehyde

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**11. Toxicological Information**

Oral rat LD50: 5000 mg/kg for Formazin; Oral rat LD50: 601 mg/kg for hydrazine sulfate. Hydrazine sulfate investigated as a tumorigen & mutagen. Methenamine investigated as a mutagen.

**Target Organs:** Skin

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**12. Ecological Information**

Information Not Yet Available

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**13. Disposal Considerations**

Dispose according to federal, state and local regulations.

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**14. Transportation Information**

Not Regulated For Transport

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**15. Regulatory Information**

Hazard	Ingredient	<u>Chemical Inventory Status</u>					
		USA TSCA	Europe EC	--- Canada --- DSL NDSL		Australia	Japan
Yes	10034-93-2 Hydrazine Sulfate	Yes	Yes	Yes	No	Yes	Yes
Yes	100-97-0 Hexamethylene-tetramine (Hexamine)	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

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**Federal, State, & International Regulations**

<b>Ingredient</b>	<b>--- SARA 302 ---</b>		<b>----- SARA 313 -----</b>		<b>CERCLA</b>	<b>RCRA 261.33</b>	<b>TSCA 8(D)</b>
	<b>RQ</b>	<b>TPQ</b>	<b>Listed</b>	<b>Chemical Category</b>			
10034-93-2 Hydrazine Sulfate	No	No	Yes	No	No	No	No
100-97-0 Hexamethylene-tetramine (Hexamine)	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

----- Australia -----

**Hazard Categories**

**Hazchem  
Code**

**Poison  
Schedule**

**This MSDS Is  
WHMIS Compliant**

**Ingredient**   **Acute**   **Chronic**   **Fire**   **Pressure**   **Reactivity**

10034-93-2   Yes   Yes   No   No   No   2X   None Allocated  
Hydrazine Sulfate

100-97-0   Yes   Yes   No   No   No   1[T]   None Allocated  
Hexamethylene-tetramine (Hexamine)

7732-18-5   No   No   No   No   No   None Allocated   None Allocated  
Distilled Water

**product 6195**   No   No   No   No   No   None Allocated   None Allocated   Yes  
**as a whole**

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**16. Other Information**

**Prepared By:** IP, Regulatory Affairs Department

**Revised:** 12/15/2005

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