

Classified According to OSHA Hazard Communication Standard (HCS)

# **SECTION 1: Identification**

#### **1.1. Product Identifier**

Trade Name or Designation:

Turbidity Standard, 400 NTU, Formazin

Product Number: R8819400

Other Identifying Product Numbers: R8819400-20F, R8819400-4C, R8819400-500C

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

## 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) CHEMTREC (International) 800-424-9300 1+ 703-527-3887

### SECTION 2: Hazard(s) Identification

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Respiratory Sensitizer	Category 1	H334	P261, P285, P304+P341, P342+P311, P501
Skin Sensitizer	Category 1	H317	P261, P272, P280, P302+P352, P332+P313,
			P321, P363, P501



# 2.2. GHS Label Elements

**Pictograms:** 



## Signal Word: Danger

#### Hazard Statements:

Hazard Number	Hazard Statement
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P261	Avoid breathing fumes, mist, vapors, or spray.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P321	Specific treatment (Wash areas of contact with water).
P332+P313	If skin irritation occurs: Get medical attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

# 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

# **SECTION 3: Composition / Information on Ingredients**

# **3.1. Components of Substance or Mixture**

Chemical Name	Formula	Molecular Weight CAS	Number Weight%
Water	H <sub>2</sub> O	18.01 g/mol 773	32-18-5 99.45
Hexamethylenetetramine	$C_{6}H_{12}N_{4}$	140.18 g/mol 100	)-97-0 0.50
Hydrazine Sulfate	$N_2H_4 \cdot H_2SO_4$	128.10 g/mol 100	)34-93-2 < 0.1

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## **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. May cause irritation, redness, and pain.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Formazin suspensions can contain residual Hydrazine Sulfate, which is a carcinogen. May affect kidneys and liver. Wash areas of contact with water. If ingested, dilute with water, induce vomiting and call a physician. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

#### 4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

# **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

### **SECTION 6: Accidental Release Measures**

# 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

#### 6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

# **Safety Data Sheet**

# **SECTION 7: Handling and Storage**

## 7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store at room temperature.

# **SECTION 8: Exposure Controls / Personal Protection**

#### 8.1 Control Parameters

Chemical Name	Limit Type	Country	y Exposure Limit	Information Source
Hexamethylenetetramine (100-97-0)	TLV-TWA	USA	1 mg/m <sup>3</sup> TWA (inhalable	ACGIH - Threshold Limit Values - Time
			fraction and vapor)	Weighted Averages (TLV-TWA)

#### 8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.

Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

# **Safety Data Sheet**

# **SECTION 9: Physical and Chemical Properties**

# 9.1. Basic Physical and Chemical Properties

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Appearance: Milky white suspension
                  Physical State: Liquid
                            Odor: Data not available.
                Odor Threshold: Data not available.
                               pH: Data not available.
        Melting/Freezing Point: 0.0°C
    Initial Boiling Point/Range: 100°C - 100°C
                     Flash Point: Data not available.
              Evaporation Rate: Data not available.
                   Flammability: Data not available.
Flammability/Explosive Limits: Data not available.
                Vapor Pressure: Data not available.
                  Vapor Density: Data not available.
               Relative Density: 1.01
                       Solubility: Miscible
           Partition Coefficient: Data not available.
    Auto-Ignition Temperature: Data not available.
 Decomposition Temperature: Data not available.
                       Viscosity: Data not available.
          Explosive Properties: Data not available.
          Oxidizing Properties: Data not available.
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# **SECTION 10: Stability and Reactivity**

# 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

# **10.2. Possibility of Hazardous Reactions**

Data not available.

# 10.3. Conditions to Avoid and Incompatible Materials

Strong Oxidizing Agents, metals, metal oxides, acids.

# **10.4. Hazardous Decomposition Products**

Will not occur.

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# **SECTION 11: Toxicological Information**

## 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure:

Not applicable.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Not applicable.

#### Acute Toxicity - Other Information:

LD50, Oral, Rat: 601 mg/kg (Hydrazine Sulfate), details of toxic effects not reported other than lethal dose value. LD50, Oral, Rat: Not available for Hexamethylenetetramine.

#### Skin Corrosion and Irritation:

Not applicable.

#### Serious Eye Damage and Irritation:

Not applicable.

#### **Respiratory Sensitization:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

#### Skin Sensitization:

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

#### Specific Target Organ Toxicity from Single Exposure:

Not applicable.

#### Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

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Additional Toxicology Information: Data not available.

# **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Not applicable.

- **12.2. Persistence and Degradability** Data not available.
- **12.3. Bioaccumulative Potential** Data not available.
- 12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

# **SECTION 13: Disposal Considerations**

13.1. Waste Treatment Methods

Data not available.

### **SECTION 14: Transportation Information**

#### 14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.



# 14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

# 14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

# **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- **15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)** Hydrazine Sulfate (CAS # 10034-93-2): 0.1 % de minimis concentration
- **15.5. Massachusetts Right-to-Know Substance List** Hydrazine Sulfate (CAS # 10034-93-2): Carcinogen; Extraordinarily hazardous



#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Hydrazine Sulfate (CAS # 10034-93-2): Environmental hazard; Special hazardous substance Hydrazine Sulfate (CAS # 10034-93-2): Present Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present

## 15.7. New Jersey Worker and Community Right-to-Know Components

Hexamethylenetetramine (CAS # 100-97-0): sn 0996 Hydrazine Sulfate (CAS # 10034-93-2): carcinogen Hydrazine Sulfate (CAS # 10034-93-2): sn 2360 Hydrazine Sulfate (CAS # 10034-93-2): SN 2360 500 lb TPQ

#### 15.8. California Proposition 65

Hydrazine Sulfate (CAS # 10034-93-2): 0.2 µg/day NSRL Hydrazine Sulfate (CAS # 10034-93-2): carcinogen, 1/1/1988

#### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Hexamethylenetetramine (CAS # 100-97-0): Present (DSL) Hydrazine Sulfate (CAS # 10034-93-2): Present (CEPA, subsection 81(3) applies) (DSL) Water (CAS # 7732-18-5): Present (DSL)

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Hexamethylenetetramine (CAS # 100-97-0): Present (ACTIVE) Hydrazine Sulfate (CAS # 10034-93-2): Present (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE)

# 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European

# List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Hexamethylenetetramine (CAS # 100-97-0): 202-905-8 Hydrazine Sulfate (CAS # 10034-93-2): 233-110-4 Water (CAS # 7732-18-5): 231-791-2

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# **SECTION 16: Other Information**

## 16.1. Full Text of Hazard Statements and Precautionary Statements

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Wash contaminated clothing before reuse.

Dispose of contents in accordance with local, state, federal and international regulations.

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

#### 16.3. National Fire Protection Association (NFPA) Rating

Health:1Flammability:0Reactivity:0Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2023-09-11

# DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.