



## Safety Data Sheet

AutoGen, Inc.  
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Emergency Telephone Number: 800.633.8253 (USA & Canada) 801.629.0667  
International

Agent: PERS

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### Section 1 – Product and Company Information

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Product Name: Resuspension Solution R-2 (for RNA digestion)

Product Number: TD-R8 or ag00113-TDR8

Company: AutoGen, Inc.

Address: 84 October Hill Rd.  
Holliston, MA 01746

Phone: 774.233.3000

Web: [www.autogen.com](http://www.autogen.com)

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### Section 2 – Hazards Identification

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<u>Chemical name</u>	<u>CAS #</u>
Tris-HCl	77-86-1
EDTA	6381-92-6
Water	7732-18-5
RNase	

No necessary hazard identifications

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### Section 3 - Hazards Identification

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<u>Component</u>	<u>CAS-NO</u>	<u>Weight by Percent</u>
Tris-HCl	77-86-1	<1
EDTA	6381-92-6	<1
Water	7732-18-5	98-99



RNASE		?
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#### Emergency Overview

CAUTION! Handling care generally in keeping with safe laboratory practices is recommended.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health Effects

Eyes: No known acute effects of this product resulting from eye contact.

Skin: No known acute effects of this product resulting from skin contact.

Inhalation: No known acute effects of this product resulting from inhalation.

Ingestion: No known acute effects of this product resulting from ingestion.

Potential Chronic Health Effects

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Additional information: See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure:

Repeated or prolonged exposure is not known to aggravate medical conditions.

#### Hazard Description:

Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract.

#### NFPA Rating (0-4):

Fire hazard	0
Health	0
Reactivity	0
Specific hazard	0

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#### Section 4- First Aid Measures

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#### General Information:

Immediately remove any clothing soiled by the substance .Wash affected area with copious amounts of water for at least 15 minutes and then soap and water. Speed in removing material from skin is extremely important. Use safety shower.

#### Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

#### Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

#### Ingestion:



Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.  
Loosen tight clothing such as a collar, tie, belt or waistband.

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## Section 5- Fire Fighting Measures

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### Flammability of the Product:

Non-flammable.

### Auto-Ignition Temperature:

Not applicable.

### Flash Points

Not applicable.

### Flammable Limits

Not applicable.

### Products of Combustion

Not available.

### Fire Hazards in Presence of Various Substances

Not applicable.

### Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of static discharge: No.

Risks of explosion of the product in presence of mechanical impact: No.

### Fire Fighting Media and Instructions

Not applicable.

### Protective Clothing (Fire)

Not applicable.

### Special Remarks on Fire Hazards

Not available.

### Special Remarks on Explosion Hazards

May emit toxic fumes under fire conditions.

Thermal decomposition may release toxic and/or hazardous gases. (EDTA di-Sodium Dihydrate)

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## Section 6 – Accidental Release Measures

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### Small Spill and Leak

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

### Large Spill and Leak

Absorb with an inert material and put the spilled material in an appropriate waste disposal.



### Spill Kit Information

No specific spill kit required for this product.

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## Section 7 – Handling and Storage

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### Handling:

Avoid breathing vapors or spray mists. Avoid contact with skin and eyes. Do not ingest.

### Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

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## Section 8 – Exposure controls/Personal Protection

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### Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

### Personal Protection

Eyes: Safety glasses.

Body: Lab coat.

Respiratory: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hands: Gloves.

Feet: Not applicable.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits

Tris (hydroxymethyl) aminomethane: Not available.

EDTA di-Sodium Dihydrate: Not available.

Water: Not available.

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## Section 9 – Physical and Chemical Properties

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Odor: Not available.

Color: Colorless.

### Appearance:

Physical State and Appearance: Liquid.

Molecular Weight: Not applicable.

Molecular Formula: Not applicable.

pH: Not available.

Boiling/Condensation Point: The lowest known value is 99.9°C (211.8°F) (Water).

Melting/Freezing Point: May start to solidify at -0.1°C (31.8°F) based on data for: Water.

Specific Gravity: Not available.

Vapor Pressure: Not available.



Vapor Density: Not available.  
Odor Threshold: Not available.  
Evaporation Rate: 0.36 (Water) compared to (n-BUTYL ACETATE=1)  
LogKow: Not available.  
Solubility: Soluble in water.

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## Section 10 – Stability and Reactivity

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### Stability/Reactivity

The product is stable.

### Conditions of Instability

Not available.

### Incompatibility with Various Substances

Not available.

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## Section 11 – Toxicological Information

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RTECS Number:

Tris (hydroxymethyl) aminomethane: TY2900000

EDTA di-Sodium Dihydrate: Not available.

Water: ZC0110000

Toxicity

LD50: Not available.

LC50: Not available.

Chronic Effects on Humans: Not available.

Acute Effects on Humans: Not available.

Synergetic Products (Toxicologically): Not available.

Irritancy Draize Test: Not available.

Sensitization: Not available.

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive System: Not available.

Teratogenic Effects: Not available.

Mutagenic Effects: Not available.

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## Section 12 – Ecological Information

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Ecotoxicity: Not available.

BOD5 and COD: Not available.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

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## Section 13 – Disposal Considerations

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EPA Waste Number: Not available.

Treatment: Material does not have an EPA Waste Number and is not a listed waste; however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

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## Section 14 – Transport Information

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### DOT Classification

Proper Shipping Name: CHEMICALS, N.O.S.

### IMO/IMDG Classification

Proper Shipping Name: CHEMICALS, N.O.S.

### TDG Classification

Not available

### ICAO/IATA Classification

CHEMICALS, N.O.S.

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## Section 15 – Regulatory Information

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### U.S. Federal Regulations

TSCA 8(b) inventory: Tris (hydroxymethyl) aminomethane; EDTA di-Sodium Dihydrate; Water  
SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada): Not controlled under WHMIS (Canada).

CEPA DSL: Tris (hydroxymethyl) aminomethane; Water

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

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## Section 16 – Other Information

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This bulletin is for your guidance and is based upon information and tests believed to be reliable. AutoGen makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.