



Health	1
Flammability	0
Reactivity	0
Personal Protection	B

Trebla  
8417 Chapin Industrial Drive  
St. Louis, MO 63114  
Phone 1-800-325-4404

August 30, 1994

## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trecon RA Bleach-fix NR Replenisher, Part A

**Catalog Number:** 30BF314, 30BF316

**Formula:** Aqueous Solution

### SECTION II - Product and Hazardous\* Ingredients Information

#### SARA

<u>ITEM</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PEL</u>	<u>RQ / TPQ</u>
Ammonium Thiosulfate	7783-18-8	50-55	N/A	N/A N/A
*Sodium Metabisulfite	7681-57-4	40-45	5mg/m3	N/A N/A
Water	7732-18-5	N/A	N/A	N/A N/A

### SECTION III - Physical Data

**BOILING POINT:** >212° F

**VAPOR PRESSURE (mmHg):** 18

**VAPOR DENSITY(mmHg):** N/A

**SOLUBILITY IN WATER:** Miscible

**SPECIFIC GRAVITY:** 1.34

**pH:** ~ 5.8

**EVAPORATION RATE:** N/A

**PERCENT VOLATILE BY WEIGHT:** ~ 42%

**APPEARANCE AND ODOR:** Light green.

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None

**Flammable Limits: LEL:** NA **UEL:** NA

**Extinguishing Media:** Use method appropriate for surrounding fire.

**Special Fire Fighting Procedures:** Use self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosions Hazards:** When heated to decomposition, it can emit toxic fumes of ammonia and SO<sub>x</sub>.

### SECTION V - Health Hazard Data

**TLV (ACGIH):** Sodium Metabisulfite (5mg/m3).

#### Effects of Overexposure:

**Inhalation:** Expected to be a low hazard under normal conditions.

**Eyes:** May cause irritation.

**Skin:** Repeated and prolonged contact may cause irritation.

**Ingestion:** Do not take internally. Expected to be a low hazard. May cause Nausea.

**Carcinogenicity:** N/A • **Teratogenicity:** N/A • **Reproductive Toxicity:** N/A • **Mutagenicity:** NA •

**Synergistic Products:** N/A

**Emergency First Aid Procedures:**

**Eyes:** Flush with large amounts of water for 15 minutes. Seek medical attention.

**Skin:** Wash skin with soap and water. If irritation occurs, seek medical attention.

**Ingestion:** Induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

**Inhalation:** Move to fresh air.

**SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** Strong acids, strong alkalis.

**Hazardous Decomposition Products:** When heated to decomposition, it can emit toxic fumes of ammonia and SO<sub>x</sub>. Contact with strong acids will release SO<sub>2</sub> and contact with strong alkalis will release ammonia.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Do not store near strong acids or strong alkalis.

**SECTION VII - Spill or Leak Procedure**

**Steps to be Taken in Case Material is Released or Spilled:** Wear protective clothing as specified in Section VIII. If federal, state and local laws permit, flush to the sewer with large amounts of water.

**Waste Disposal:** If federal, state and/or local laws permit, flush to sewer with large amounts of water. Otherwise dispose of contaminated product and materials used in cleaning up the spill in a manner approved for this material. Consult proper federal, state and/or local regulatory agencies to ascertain proper disposal procedures.

**SECTION VIII - Special Protection Information**

**Respiratory Protection (Specify Type):** Should not be necessary under normal conditions.

**Ventilation:** Good local mechanical ventilation should be sufficient.

**Protective Equipment:**

**Gloves:** Impervious gloves.

**Eyes:** Safety glasses with side shields, or goggles.

**Other:** As necessary to prevent skin contact. Eyewash facilities in vicinity of use.

**SECTION IX - Special Precautions**

**Precautions to be Taken in Handling and Storage:** Do not store near strong acids or strong alkalis. Wash thoroughly after use. Do not store or consume food, drink or tobacco in area of use.

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## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trecon RA Bleach-fix NR Replenisher, Part B

**Catalog Number:** 30BF315, 30BF317

**Formula:** Aqueous solution

### SECTION II - Product and Hazardous\* Ingredients Information

<u>ITEM</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PELRQ / TPQ</u>	<u>SARA</u>	
Ferric Ammonium EDTA	021265-50-9	55-60	N/A	N/A	N/A
Water	7732-18-5	N/A	N/A	N/A	N/A

### SECTION III - Physical Data

**BOILING POINT:** >212° F

**VAPOR DENSITY(mmHg):** ~0.6

**SPECIFIC GRAVITY:** 1.23

**EVAPORATION RATE:** N/A

**AND ODOR:** Red brown, slight ammonia odor.

**VAPOR PRESSURE (mmHg):** ~17.0

**SOLUBILITY IN WATER:** Complete

**pH:** ~ 7.3

**PERCENT VOLATILE BY WEIGHT:** ~55 % **APPEARANCE**

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None **Flammable Limits:** LEL: N/A UEL: N/A

**Extinguishing Media:** Water spray, alcohol resistant foam, CO<sub>2</sub>, dry chemical.

**Special Fire Fighting Procedures:** Use self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosions Hazards:** Fire sufficient to evaporate water may cause oxides of nitrogen to be formed during combustion.

### SECTION V - Health Hazard Data

**TLV (ACGIH):** N/A

#### Effects of Overexposure:

**Inhalation:** Expected to be a low hazard under normal conditions.

**Eyes:** Vapors may cause slight irritation. Contact causes irritation.

**Skin:** Prolonged or repeated contact may result in irritation.

**Ingestion:** Expected to be a low hazard. May cause nausea.

**Carcinogenicity:** N/A • **Teratogenicity:** N/A • **Reproductive Toxicity:** N/A • **Mutagenicity:** N/A •

**Synergistic Products:** N/A

**Emergency First Aid Procedures:**

**Eyes:** Flush with water for 15 minutes. Seek medical attention immediately.

**Skin:** Flush with water. If irritation occurs, call physician.

**Ingestion:** Drink water or milk. Induce vomiting and seek medical attention immediately.

**Inhalation:** Move to fresh air.

**SECTION VI - Reactivity Data**

**Stability:** Avoid evaporation to dryness.

**Incompatibility:** Contact with carbon steel produces hydrogen.

**Hazardous Decomposition Products:** Material decomposes into ammonia and nitrogen oxides under fire conditions.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Do not store in temperatures above 100° F.

**SECTION VII - Spill or Leak Procedure**

**Steps to be Taken in Case Material is Released or Spilled:** Wear protective clothing as specified in Section VIII. If federal, state and local laws permit, flush to the sewer with large amounts of water.

**Waste Disposal:** If federal, state and/or local laws permit, flush to sewer with large amounts of water. Otherwise dispose of contaminated product and materials used in cleaning up the spill in a manner approved for this material. Consult proper federal, state and/or local regulatory agencies to ascertain proper disposal procedures.

**SECTION VIII - Special Protection Information**

**Respiratory Protection (Specify Type):** Should not be necessary under normal conditions.

**Ventilation:** Good local mechanical ventilation should be sufficient.

**Protective Equipment:**

**Gloves:** Impervious gloves.

**Eyes:** Wear protective goggles.

**Other:** As necessary to prevent skin contact.

**SECTION IX - Special Precautions**

**Precautions to be Taken in Handling and Storage:** Do not store in temperatures above 100° F. Wash thoroughly after use. Do not store or consume food, drink or tobacco in area of use.

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Revised: 9/5/95

Health	2
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Reactivity	1
Personal Protection	C

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## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trecon RA Bleach-fix NR Replenisher, Part C

**Catalog Number:** 30BF318

**Formula:** Aqueous solution

### SECTION II - Product and Hazardous Ingredients Information

<u>ITEM</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PEL</u>	<u>RQ / TPQ</u>	<u>SARA</u>
Acetic Acid	64-19-7	85-90	10ppm (TWA)	N/A N/A	

### SECTION III - Physical Data

**BOILING POINT:** ~244 ° F

**VAPOR PRESSURE (mmHg):** ~11.0

**VAPOR DENSITY(mmHg):** ~2.07

**SOLUBILITY IN WATER:** Complete

**SPECIFIC GRAVITY:** 1.06

**pH:** > 1.5

**EVAPORATION RATE:** ~ 0.97

**PERCENT VOLATILE BY WEIGHT:** ~100% **APPEARANCE**

**AND ODOR:** Clear, colorless liquid, pungent odor.

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** ~120 ° F Closed Cap

**Flammable Limits: LEL:** 143 mg/L @ 60° C **UEL:** 378 mg/L @ 93° C

**Extinguishing Media:** Water spray, alcohol foam, dry chemical, carbon dioxide.

**Special Fire Fighting Procedures:** Use self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosions Hazards:** Can react vigorously with oxidizing materials. Emits toxic fumes when heated to decomposition.

### SECTION V - Health Hazard Data

**TLV (ACGIH):** 10 ppm(TWA), 15 ppm(STEL)

#### Effects of Overexposure:

**Inhalation:** Vapor may cause irritation to nose and throat. May cause difficulty in breathing.

**Eyes:** Vapor causes irritation. Contact can cause severe burns.

**Skin:** Contact can cause severe burns. Sensitization has been reported.

**Ingestion:** Harmful if swallowed. Will cause severe burns to upper digestive tract.

**Carcinogenicity:** N/A • **Teratogenicity:** N/A • **Reproductive Toxicity:** N/A • **Mutagenicity:** N/A •

**Synergistic Products:** N/A

**Emergency First Aid Procedures:**

**Eyes:** Flush with water for 15 minutes. Seek medical attention immediately.

**Skin:** Flush with water. Seek medical attention immediately. Remove contaminated clothing and launder before wearing again.

**Ingestion:** If conscious, drink water or milk. **DO NOT** induce vomiting. Seek medical attention immediately, giving full details of amount ingested and toxicity.

**Inhalation:** Move to fresh air. If breathing becomes difficult, give oxygen and seek medical attention immediately.

**SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** Alkali, amines, alcohol, strong oxidizers.

**Hazardous Decomposition Products:** When heated to decomposition it emits toxic fumes.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Keep away from heat or flame. Keep away from oxidizers, alkali, amines, and alcohol.

**SECTION VII - Spill or Leak Procedure**

**Steps to be Taken in Case Material is Released or Spilled:** Wear protective clothing as specified in Section VIII. Dilute with water and neutralize with sodium bicarbonate. If federal, state and local laws permit, flush to the sewer with large amounts of water.

**Waste Disposal:** If federal, state and/or local laws permit, flush to sewer with large amounts of water. Otherwise dispose of contaminated product and materials used in cleaning up the spill in a manner approved for this material. Consult proper federal, state and/or local regulatory agencies to ascertain proper disposal procedures.

**SECTION VIII - Special Protection Information**

**Respiratory Protection (Specify Type):** An approved organic vapor respirator is necessary when exposed to vapors that exceed TLV/PEL.

**Ventilation:** Good local mechanical ventilation should be sufficient.

**Protective Equipment:**

**Gloves:** Impervious gloves.

**Eyes:** Wear protective goggles.

**Other:** As necessary to prevent skin contact. Keep air concentration below 10 ppm. Eye wash and shower in vicinity of use.

**SECTION IX - Special Precautions**

**Precautions to be Taken in Handling and Storage:** Keep away from heat or flame. Keep away from oxidizers, alkali, amines, and alcohol. Wash thoroughly after use. Do not consume food, drink or tobacco in vicinity of use.

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