



September 5, 1995

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

Trebla Chemical  
8417 Chapin Industrial Drive  
St. Louis, MO 63114  
800-325-4404  
314-423-1919  
FAX 314-423-3914

## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trelux C-41 Electro Fixer Replenisher, part A  
**Catalog Number:** 55FX534, 50FX516  
**Formula:** Aqueous solution

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

<u>ITEM</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PEL</u>	<u>SARA</u> <u>RQ / TPQ</u>
Ammonium Bisulfite	10192-30-0	65-70	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):** N/A  
**SPECIFIC GRAVITY:** 1.37  
**EVAPORATION RATE:** N/A  
**APPEARANCE AND ODOR:** Clear, yellow. Sulfur Dioxide odor.

**VAPOR PRESSURE (mmHg):** ~17  
**SOLUBILITY IN WATER:** Complete  
**pH:** ~ 5.0  
**PERCENT VOLATILE BY WEIGH** ~ 40%

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None  
**Flammable Limits: LEL:** N/A **UEL:** N/A  
**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 SOx and ammonia.

### SECTION V - Health Hazard Data

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

#### Effects of Overexposure:

**Inhalation:** Expected to be a low hazard under normal conditions. Sulfur Dioxide odor may cause irritation to nose and throat.  
**Eyes:** Vapor may cause irritation. Contact will cause severe irritation.  
**Skin:** Repeated and prolonged contact may cause irritation.  
**Ingestion:** Do not take internally. Harmful if swallowed. Will cause severe burns of upper digestive track.

#### 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:** DO NOT induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.  
**Inhalation:** Move to fresh air.

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

## **SECTION VI - Reactivity Data**

**Stability:** Stable.

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

**Hazardous Decomposition Products:** When heated to decomposition, it can emit toxic fumes of SO<sub>x</sub> and ammonia. Will release Sulfur dioxide if it encounters strong acids. Will release heat and ammonia if it encounters strong alkalis.

**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. Neutralize with sodium carbonate. If federal, state and local laws permit, flush to the sewer with large amounts of water.

**Waste Disposal:** Neutralize with sodium carbonate. 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. If exposed to vapors or if more than 2 ppm of sulfur dioxide is present, use an approved organic acid respirator.

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

**Protective Equipment:**

**Gloves:** Impervious gloves.

**Eyes:** Wear protective 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.

The information contained in this material safety data sheet is furnished without warranty of any kind. The user should consider this data a supplement to other information gathered and must make independent determination of suitability and completeness of information from this and other sources to assure proper use and disposal of this materials and the health and safety of employees and customers. This statement is incorporated as part of this Material Safety Data Sheet.



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## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trelux CN-41 Electro Fixer and Replenisher, Part B

**Catalog Number:** 55FX535, 50FX517

**Formula:** Aqueous Solution

### SECTION II - Product and Hazardous Ingredients Information

#### SARA

ITEM	CAS #	PERCENT	PEL	RQ / TPQ
Ammonium Thiosulfate	7783-18-8	45-50	N/A	N/A / N/A
Ammonium Hydroxide	1336-21-6	1-5	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:** 1.27

**PERCENT VOLATILE BY WEIGHT:** ~ 46 %

**APPEARANCE AND ODOR:** Clear light yellow color, ammonia odor.

**VAPOR PRESSURE (mmHg):** 17

**SOLUBILITY IN WATER:** Complete

**pH:** ~ 8.7

**EVAPORATION RATE:** N/A

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None

**Flammable Limits: LEL:** N/A **UEL:** N/A

**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):** Ammonium Hydroxide, 1ppm (TWA).

#### Effects of Overexposure:

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

**Eyes:** Will cause severe irritation and possible burns.

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

**Ingestion:** Do not take internally. May cause severe irritation to upper digestive tract. May cause nausea.

#### 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.

**NON-CARCINOGENIC:** • **Teratogenicity:** N/A • **Reproductive Toxicity:** N/A • **Mutagenicity:** NA • **Synergistic Products:** N/A

## **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. Neutralize with sodium bicarbonate. If federal, state and local laws permit, flush to the sewer with large amounts of water.

**Waste Disposal:** Neutralize with sodium bicarbonate. 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. If TWA for ammonium hydroxide is exceeded, use an approved ammonia respirator.

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

### **Protective Equipment:**

**Gloves:** Impervious gloves.

**Eyes:** Wear protective 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.

The information contained in this material safety data sheet is furnished without warranty of any kind. The user should consider this data a supplement to other information gathered and must make independent determination of suitability and completeness of information from this and other sources to assure proper use and disposal of this materials and the health and safety of employees and customers. This statement is incorporated as part of this Material Safety Data Sheet.