



Health	1
Flammability	0
Reactivity	0
Personal Protection	B

Trebla Chemical Company  
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January 16, 2001

## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trelux TL-50 Developer and Replenisher, Part A  
**Catalog Number:** 55DE550, 55DE560, 55DE571, 50DE501  
**Formula:** Aqueous Solution

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

<u>Concentrate</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PEL</u>	<u>SARA</u> <u>RQ / TPQ</u>	
Potassium Carbonate	584-08-7	40-45	N/A	N/A	N/A
Potassium Sulfite	10117-38-1	1-5	N/A	N/A	N/A
Potassium Bromide	7758-02-3	<1	5 mg/m <sup>3</sup>	N/A	N/A
*Potassium Hydroxide	1310-58-3	<1	N/A	N/A	N/A
*DTPA Na5	00014-00-12	1-5	N/A	N/A	N/A
Water	7732-18-5	N/A	N/A	N/A	N/A

Note: DTPA Na5 may contain up to 2% Trisodium Nitritotriacetate Trisodium NTA (CAS # 5064-31-3) or Nitritotriacetic acid NTA (CAS # 139-13-9) Both are listed as a Carcinogen by IARC NTP.

### Working Solution

N/A

### SECTION III - Physical Data

**BOILING POINT:** >212° F  
**VAPOR DENSITY (mmHg):** ~0.6  
**SPECIFIC GRAVITY:** 1.41  
**EVAPORATION RATE:** N/A  
**APPEARANCE AND ODOR:** Clear, colorless, and odorless.

**VAPOR PRESSURE (mmHg):** ~ 17.0  
**SOLUBILITY IN WATER:** Complete  
**pH:** ~ 11.70  
**PERCENT VOLATILE BY WEIGHT:** ~59%

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None  
**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:** None Known.

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

### SECTION V - Health Hazard Data

**TLV (ACGIH):** Potassium Hydroxide - 2mg/m<sup>3</sup>(TWA), Potassium Bromide - 10 mg/m<sup>3</sup>.

#### 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:** Repeated and prolonged contact may cause irritation or allergic skin reaction.

**Ingestion:** Harmful if swallowed. May cause nausea and loss of consciousness. May cause burns to upper digestive tract.

**Emergency First Aid Procedures:**

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

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

**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. Get medical attention if breathing becomes difficult.

**Carcinogenicity:** \*See note above on Trisodium Nitrilotriacetate Trisodium NTA (CAS # 5064-31-3) •

**Teratogenicity:** N/A • Reproductive Toxicity: Trisodium Nitrilotriacetate Trisodium NTA (CAS # 5064-31-3) is known to the state of California to cause cancer and birth defects or other reproductive harm •

**Mutagenicity:** NA • **Synergistic Products:** N/A

**SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** Strong acids.

**Hazardous Decomposition Products:** When heated to decomposition it emits CO<sub>2</sub>. Contact with strong acids will create heat and release SO<sub>2</sub>.

**Hazardous Polymerization:** Will not occur.

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

**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. Eyewash facilities in vicinity of use.

**SECTION IX - Special Precautions**

**Precautions to be taken in Handling and Storage:** Do not store near strong acids. Do not store above 100° F. Wash thoroughly after use.

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Health	1
Flammability	0
Reactivity	0
Personal Protection	B

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November 7, 2000

## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trelux TL-50 Developer and Replenisher, Part B  
**Catalog Number:** 55DE550, 55DE560, 55DE571, 50DE502  
**Formula:** Aqueous Solution

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

<u>Concentrate</u>	<u>CAS #</u>	<u>PERCENT</u>	<u>PEL</u>	<u>SARA</u>	
				<u>RQ /</u>	<u>TPQ</u>
Hydroxylamine Sulfate	10039-54-0	15-20	N/A	N/A	N/A
Water	7732-18-5	N/A	N/A	N/A	N/A

#### Working Solution

N/A

### SECTION III - Physical Data

**BOILING POINT:** >212° F  
**VAPOR DENSITY (mmHg):** ~0.6  
**SPECIFIC GRAVITY:** 1.12  
**EVAPORATION RATE:** N/A  
**APPEARANCE AND ODOR:** Clear, Colorless, and Odorless.

**VAPOR PRESSURE (mmHg):** ~ 17.0  
**SOLUBILITY IN WATER:** Complete  
**pH:** ~ 2.2  
**PERCENT VOLATILE BY WEIGHT:** ~80%

### 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:** None Known.

### SECTION V - Health Hazard Data

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

#### Effects of Overexposure:

**Inhalation:** Prolonged or excessive inhalation may result in headache and nausea. Expected to be a low hazard under normal conditions.  
**Eyes:** Vapor may cause irritation. Contact will cause irritation and possible burns.  
**Skin:** Repeated and prolonged contact may cause irritation.  
**Ingestion:** Harmful if swallowed. Do not take internally. May cause nausea or loss of consciousness.

**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:** Drink water or milk and induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

**Inhalation:** Move to fresh air. Get medical attention if breathing becomes difficult.

**SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** BrF<sub>3</sub>, Strong Alkali.

**Hazardous Decomposition Products:** When heated to decomposition it emits toxic fumes of SO<sub>x</sub>. Sulfuric acid fumes may form in fires.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None Known.

**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:** 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. Eyewash facilities in vicinity of use.

**SECTION IX - Special Precautions**

**Precautions to be taken in Handling and Storage:** Do not store near strong alkali. Wash thoroughly after use.

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Health	2
Flammability	0
Reactivity	0
Personal Protection	B

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October 17, 2000

## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** Trelux TL-50 Developer and Replenisher, Part C

**Catalog Number:** 55DE550, 55DE560, 55DE571, 50DE502

**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>	
4-(N-Ethyl-N-2-hydroxyethyl)-2-methylene phenylene - diamine sulfate	25646-77-9	25-30	N/A	N/A	N/A
Sodium Metabisulfite	7681-57-4	5-10	N/A	N/A	N/A
Water	7732-18-5	N/A	N/A	N/A	N/A

#### Working Solution

N/A

### SECTION III - Physical Data

**BOILING POINT:** >212° F

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

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

**SOLUBILITY IN WATER:** Complete

**SPECIFIC GRAVITY:** 1.15

**pH:** ~ 2.0

**EVAPORATION RATE:** N/A

**PERCENT VOLATILE BY WEIGHT:** ~ 62%

**APPEARANCE AND ODOR:** Reddish brown, sulfur dioxide odor.

### 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:** None Known.

### SECTION V - Health Hazard Data

**TLV (ACGIH):** Sulfur Dioxide - 2 ppm (TWA)

#### 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:** Repeated and prolonged contact may cause irritation or allergic skin reaction.

**Ingestion:** Harmful if swallowed. Can cause burns in upper digestive tract.

#### Emergency First Aid Procedures:

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

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

**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. Get medical attention if breathing becomes difficult.

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

#### **SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** Mineral acids and strong alkalis.

**Hazardous Decomposition Products:** When heated to decomposition it emits toxic fumes of SO<sub>x</sub>.

Contact with strong acids will release SO<sub>2</sub>.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Do not store near mineral acids and 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:** 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 acid gas respirator is necessary when exposed to vapors.

**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 mineral acids and strong alkalis. Do not store above 100° F. After use, wash hands with a non-alkaline hand cleaner.

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