



|                     |   |
|---------------------|---|
| 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 CN-41 Developer and Replenisher, Part A

**Catalog Number:** 55DE520, 55DE521

**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> |
| Potassium Carbonate     | 584-08-7     | 40-45          | N/A                 | N/A         | N/A        |
| Potassium Metabisulfite | 16731-55-8   | 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 Nitrilotriacetate Trisodium NTA (CAS # 5064-31-3) or Nitrilotriacetic 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:** ~ 11.50

**PERCENT VOLATILE BY WEIGHT:** ~59%

### 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):** 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 CN-41 Developer and Replenisher, Part B

**Catalog Number:** 55DE520, 55DE522

**Formula:** Aqueous Solution

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

| Concentrate           | CAS #      | PERCENT | PEL | SARA |     |
|-----------------------|------------|---------|-----|------|-----|
|                       |            |         |     | RQ / | TPQ |
| 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 CN-41 Developer and Replenisher, Part C

**Catalog Number:** 55DE520, 55DE522

**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><br><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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