



Health	2
Flammability	0
Reactivity	0
Personal Protection	B

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## MATERIAL SAFETY DATA SHEET

### SECTION I - General Information

**Product Name:** TriPhase RA Developer Replenisher

**Catalog Number:** 30DE380, 30DE381

**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 / TQP</u>	
4-(N-Ethyl-N-2-Methane Sulfonylamino Ethyl)-2-Phenylene Diamine (CD-3)	25646-71-3	5-10	N/A	N/A	N/A
Diethylhydroxylamine	3710-84-7	1-5	N/A	N/A	N/A
Potassium Carbonate	584-08-7	15-20	N/A	N/A	N/A
* Potassium Hydroxide	1310-58-3	1-5	N/A	N/A	N/A
Poly (maleic acid)	N/A	1-5	N/A	N/A	N/A
Proprietary	N/A	5-10	5 ppm	N/A	N/A
Water	7732-18-5	55	N/A	N/A	N/A

### Working Solution

4-(N-Ethyl-N-2-Methane Sulfonylamino Ethyl)-2-Phenylene Diamine (CD-3)	25646-71-3	<1	N/A	N/A	N/A
Diethylhydroxylamine	3710-84-7	<1	N/A	N/A	N/A
Potassium Carbonate	584-08-7	1-5	N/A	N/A	N/A
* Potassium Hydroxide	1310-58-3	<1	N/A	N/A	N/A
Poly (maleic acid)	N/A	<1	N/A	N/A	N/A
Proprietary	N/A	<1	5 ppm	N/A	N/A
Water	7732-18-5	95-100	N/A	N/A	N/A

### SECTION III - Physical Data

#### Concentrate

BOILING POINT: >212° F  
 VAPOR DENSITY(mmHg): ~0.60  
 SPECIFIC GRAVITY: N/A  
 EVAPORATION RATE: N/A  
 APPEARANCE AND ODOR: Light yellow when not stratified, amine odor.

VAPOR PRESSURE (mmHg): ~18  
 SOLUBILITY IN WATER: Complete  
 pH: N/A  
 PERCENT VOLATILE BY WEIGHT: ~ 55 %

#### Working Solution

BOILING POINT: >212° F  
 VAPOR DENSITY(mmHg): ~0.60  
 SPECIFIC GRAVITY: 1.028  
 EVAPORATION RATE: N/A  
 APPEARANCE AND ODOR: Light yellow, amine odor.

VAPOR PRESSURE (mmHg): ~18  
 SOLUBILITY IN WATER: Complete  
 pH: 10.70  
 PERCENT VOLATILE BY WEIGHT: ~ 99 %

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None      **Flammable Limits: LEL:** None    **UEL:** None

**Extinguishing Media:** Use water spray, dry chemical, CO<sub>2</sub>, foam.

**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 or excessive heat may cause hazardous decomposition products.

## **SECTION V - Health Hazard Data**

### **Effects of Overexposure:**

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

**Eyes:** Vapor may cause transient irritation. Contact may cause severe burns.

**Skin:** Repeated and prolonged contact may cause irritation and possible allergic skin reaction.

**Ingestion:** Do not take internally. Harmful if swallowed. May cause severe burns to upper digestive tract.

### **Emergency First Aid Procedures:**

**Inhalation:** Move to fresh air.

**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 1-2 glasses of water. **Do Not** induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

**TLV (ACGIH):** Potassium Hydroxide, 2 mg/m<sup>3</sup>. SO<sub>2</sub> gas (if released), 2 ppm. Proprietary ingredient (vapor), 4.3 ppm.

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

## **SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** Strong oxidizers and strong acids.

**Hazardous Decomposition Products:** Combustion will produce carbon monoxide and carbon dioxide. Oxides of nitrogen and sulfur dioxide may also be produced.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Keep container closed. Keep away from strong oxidizers and 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. The routine use of a non-alkaline type hand cleaner will minimize the possibility of an allergic skin reaction.