



January 05, 1998

Health	2
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: Trecon RA-RT "PRO" Developer & Replenisher, Part A

Catalog Number: 30DE371

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>
Diethylhydroxylamine	3710-84-7	15-20	N/A	N/A	N/A
Proprietary Ingredient	N/A	25-30	5 ppm	N/A	N/A
Aminopolycarboxylic acid, Potassium salt	10143-41-6	1-5	N/A	N/A	N/A
Stilbene Derivative	41098-56-0	1-5	N/A	N/A	N/A
Surfactant	N/A	1-5	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

Concentrate

BOILING POINT: >212° F

VAPOR PRESSURE (mmHg): ~ 17.0

VAPOR DENSITY (mmHg): ~ 0.6

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: ~ 1.05

pH: ~ 11.6

EVAPORATION RATE: N/A

PERCENT VOLATILE BY WEIGHT: ~35%

APPEARANCE AND ODOR: Yellow color, amine odor.

Working Solution

N/A

SECTION IV - Fire and Explosion Hazard Data

Flash Point: None

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

Extinguishing Media: Use water spray, dry chemical, and 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: Fire or heat may cause hazardous decomposition products.

SECTION V - Health Hazard Data

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. Harmful if swallowed.

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: Dilute with water and induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

TLV (ACGIH): Proprietary Ingredient, 4.3 ppm (TWA Vapor)

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, bases and strong oxidizers.

Hazardous Decomposition Products: Combustion will produce CO and probably CO₂. Incomplete combustion will produce CO. Oxides of nitrogen and sulfur dioxide may also be present.

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. Regular use of a non-alkaline hand cleaner will minimize the possibility of an allergic skin reaction. 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 oxidizers. Wash thoroughly after use. Do not consume food, drink or tobacco in vicinity of use.

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January 2, 2000

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MATERIAL SAFETY DATA SHEET

SECTION I - General Information

Product Name: Trecon RA-RT "PRO" Developer & Replenisher, Part B

Catalog Number: 30DE372

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>	
4-(N-Ethyl-N-2-Methane Sulfonylamino Ethyl)-2-Phenylene Diamine (CD-3)	25646-71-3	20-25	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

Concentrate

BOILING POINT: >212° F

VAPOR DENSITY (mmHg): ~0.6

SPECIFIC GRAVITY: ~ 1.13

EVAPORATION RATE: N/A

ODOR: Clear amber solution, SO₂ odor.

VAPOR PRESSURE (mmHg): ~ 18.0

SOLUBILITY IN WATER: Complete

pH: ~ 1.00

PERCENT VOLATILE BY WEIGHT: ~75% APPEARANCE AND

Working Solution

N/A

SECTION IV - Fire and Explosion Hazard Data

Concentrate

Flash Point: None

Flammable Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Use water spray, dry chemical, CO₂, 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: Vapor may cause irritation to upper respiratory tract. May cause difficulty in breathing.

Eyes: Vapor may cause irritation. Contact will cause severe burns.

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

Ingestion: Do not take internally. Harmful if swallowed. May cause 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 immediately.

Skin: Wash skin with non-alkaline 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.

TLV (ACGIH): SO₂ gas is released from contact. TLV = 2ppm. PEL = 5ppm.

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

SECTION VI - Reactivity Data

Stability: Stable.

Incompatibility: Strong oxidizers, strong acids.

Hazardous Decomposition Products: Combustion will produce CO₂ and probably CO. Oxides of nitrogen and sulfur dioxide may also be present.

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: 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.

Ventilation: Good local mechanical ventilation should be sufficient.

Protective Equipment:

Gloves: Impervious gloves.

Eyes: Wear protective goggles.

Other: As necessary to prevent skin contact. Regular use of a non-alkaline hand cleaner will minimize the possibility of an allergic skin reaction. Eyewash facilities in vicinity of use.

SECTION IX - Special Precautions

Precautions to be taken in Handling and Storage: Keep away from strong oxidizers and strong acids. Do not consume food, drink or tobacco in vicinity of use. Wash thoroughly after use.

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December 13, 1999

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Personal Protection	B

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MATERIAL SAFETY DATA SHEET

SECTION I - General Information

Product Name: Trecon RA-RT "PRO" Developer & Replenisher, Part C

Catalog Number: 30DE373

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	35-40	N/A	N/A	N/A
* Potassium Hydroxide	1310-58-3	1-5	N/A	N/A	N/A
Aminopolycarboxylic acid, potassium salt	10143-41-6	1-5	N/A	N/A	N/A
Poly (maleic acid)	N/A	1-5	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

Concentrate

BOILING POINT: >212° F

VAPOR PRESSURE (mmHg): ~ 18.0

VAPOR DENSITY (mmHg): ~ 0.6

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: ~ 1.47

pH: > 13.9

EVAPORATION RATE: N/A

PERCENT VOLATILE BY WEIGHT: ~55%

APPEARANCE AND ODOR: Clear, colorless and odorless.

Working Solution

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: Will emit carbon dioxide and possibly carbon monoxide during decomposition.

SECTION V - Health Hazard Data

Effects of Overexposure:

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

Eyes: Vapor may cause irritation. Contact will cause severe burns.

Skin: Possibility of causing severe burns.

Ingestion: Do not take internally. Harmful if swallowed. Can cause severe burns to mouth, esophagus and stomach.

Emergency First Aid Procedures:

Inhalation: Move to fresh air.

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

Skin: Immediately flush with water for 15 minutes. Remove contaminated clothing. Seek medical attention.

Ingestion: **DO NOT** induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

TLV (ACGIH): Potassium Hydroxide, 2mg/m³

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.

Hazardous Decomposition Products: Carbon dioxide and possibly carbon monoxide.

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: 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.

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: Keep away from strong acids. Do not consume food, drink or tobacco in vicinity of use. Wash thoroughly after use.

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