



September 1, 1990

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

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MATERIAL SAFETY DATA SHEET

SECTION I - General Information

Product Name: Trepan 2000 Fixer and Replenisher
Catalog Number: 40FX407
Formula: Aqueous Solution

SECTION II - Product and Hazardous Ingredients Information

SARA

ITEM	CAS #	PERCENT	PEL	RQ/ TPQ
Ammonium Thiosulfate	7783-18-8	40-45	N/A	N/A N/A
Sodium Metaborate	7775-19-1	1-5	N/A	N/A N/A
Acetic Acid	64-19-7	1-5	10ppm(TWA)	N/A N/A
Sodium Metabisulfite	7681-57-4	1-5	5mg/m ³	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: 1.29
PERCENT VOLATILE BY WEIGH ~ 49%
APPEARANCE AND ODOR: Clear, colorless. Slight Ammonia odor.

VAPOR PRESSURE (mmHg): ~18
SOLUBILITY IN WATER: Complete
pH: ~ 5.0
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 SO_x and ammonia.

SECTION V - Health Hazard Data

TLV (ACGIH): Acetic Acid (10 ppm), Sodium Metabisulfite (5mg/m³).
Effects of Overexposure:
Inhalation: Expected to be a low hazard under normal conditions.
Eyes: Contact may cause irritation.
Skin: Repeated and prolonged contact may cause irritation.
Ingestion: Do not take internally. May be harmful if swallowed.

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 • Syner-
gistic Products: N/A

(SECTION VI - Reactivity Data)

Stability: Stable.

Incompatibility: Strong acids and strong bases.

Hazardous Decomposition Products: When heated to decomposition, it can emit toxic fumes of SO₂ and ammonia. Contact with strong acids may release Sulfur Dioxide. Contact with strong bases may release ammonia.

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. 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: Do not store near strong acids or strong bases. 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.