

MATERIAL SAFETY DATA SHEET

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Health	1
Flammability	0
Reactivity	0
Personal Protection	B

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SECTION I - General Information

Product Name: Formula 874 Dual Rapid Fixer

Catalog Number: 874-1, 874-5, 874-32

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>
Ammonium Thiosulfate	7783-18-8	50-55	N/A	N/A N/A
Sodium Sulfite	7757-83-750-55	1-5	N/A	N/A N/A
Acetic Acid	64-19-7	1-5	10 ppm	5000# N/A
Boric Acid	10043-35-3	1-5	N/A	N/A N/A
Water	7732-18-5	40-45	N/A	N/A N/A

SECTION III - Physical Data

BOILING POINT: >212° F

VAPOR DENSITY (mmHg): N/A

SPECIFIC GRAVITY: 1.34

EVAPORATION RATE: N/A

APPEARANCE AND ODOR: Clear to pale yellow

VAPOR PRESSURE (mmHg): 18

SOLUBILITY IN WATER: Miscible

pH: ~ 5.0

PERCENT VOLATILE BY WEIGHT: ~ 42%

SECTION IV - Fire and Explosion Hazard Data

Flash Point: None

Flammable Limits: LEL: NA UEL: NA

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 ammonia and SO_x.

SECTION V - Health Hazard Data

Effects of Overexposure:

Inhalation: Low hazard for ordinary industrial handling. Contact with strong acids, or if heated, sulfites may liberate sulfur dioxide gas. Sulfur dioxide gas can irritate the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.

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

Skin: Repeated and prolonged contact may cause irritation.

Ingestion: Do **Not** take internally. May be harmful if swallowed. Sulfite sensitive individuals may experience wheezing, chest tightness, upset stomach and weakness.

Pure Component Toxicology Information

Sodium Sulfite: Slightly toxic by oral ingestion. It is a slight to moderate skin, eye, and respiratory tract irritant. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, hives, weakness and diarrhea following ingestion.

Acetic Acid: Acetic acid is a skin and eye corrosive. Vapor irritates the eyes and respiratory system. Ingestion causes internal irritation and damage. The compound has been infrequently associated with skin sensitization in humans.

Ammonium Thiosulfate: Ammonium thiosulfate is considered to have a low toxicity to humans by ingestion. Inhalation of mist may cause irritation of the nose, throat and respiratory tract. Contact with eyes may cause irritation or a burning sensation. Prolonged or repeated contact with skin may cause irritation.

Aluminum Sulfate: Can cause oral and gastrointestinal irritation if swallowed. Nausea, vomiting, and diarrhea may occur. Skin contact will cause irritation. Long term exposure to skin by concentrated solutions will cause irritation. Prolonged contact with dilute solutions may cause irritation.

Boric Acid: Irritating to skin and eyes causing reddening, stinging and swelling. Persons with pre-existing skin disorders may be susceptible to the effects of boric acid.

Carcinogenicity: None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

• **Teratogenicity:** N/A • **Reproductive Toxicity:** N/A • **Mutagenicity:** Sodium Sulfite
• **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: Induce vomiting. Seek medical attention immediately giving full details of amount ingested and toxicity.

SECTION VI - Reactivity Data

Stability: Stable.

Incompatibility: Strong acids, strong alkalis.

Hazardous Decomposition Products: When heated to decomposition, it can emit toxic fumes of ammonia and SO_x. Contact with strong acids will release SO₂ and contact with strong alkalis will release ammonia.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Do not store near strong acids or 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. 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: Safety glasses with side shields, or 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 alkalis. Wash thoroughly after use. Do not store or consume food, drink or tobacco in area of 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.