

MATERIAL SAFETY DATA SHEET

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Health	2
Flammability	0
Reactivity	0
Personal Protection	B

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SECTION I - General Information

Product Name: Formula 878 Fixer Hardener Concentrate

Catalog Number: 878H-1, 878H-4, 878H-16

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>
Aluminum Sulfate	10043-01-3	20-25	N/A	5000 / N/A
Sulfuric Acid	7664-93-9	1-2	1mg/m ³ (TWA)	1000/1000
Water	7732-18-5	75-80	N/A	N/A N/A

SECTION III - Physical Data

BOILING POINT: >212° F

VAPOR DENSITY (mmHg): ~0.6

SPECIFIC GRAVITY: 1.25

PERCENT VOLATILE BY WEIGHT: ~ 68%

APPEARANCE AND ODOR: Clear, colorless.

VAPOR PRESSURE (mmHg): ~17

SOLUBILITY IN WATER: Complete

pH: ~ 1.0

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.

SECTION V - Health Hazard Data

TLV (ACGIH): Sulfuric Acid, 1mg/m³ (TWA).

Effects of Overexposure:

Inhalation: Expected to be a low hazard under normal conditions of use. Inhalation of misted product is harmful. Do not inhale mists.

Eyes: Contact will cause burns.

Skin: Repeated and prolonged contact may cause irritation or burns.

Ingestion: Do not take internally. May cause burns or irritation of mouth and esophagus.

Pure Component Toxicology Information:

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.

Sulfuric Acid: Corrosive to skin, eyes, and respiratory tract. Toxic. Strong inorganic acid mists containing sulfuric acid are carcinogenic.

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: Do **not** induce vomiting. Drink water to dilute. 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 • **Synergistic Products:** N/A

SECTION VI - Reactivity Data

Stability: Stable.

Incompatibility: Strong alkalis.

Hazardous Decomposition Products: When heated to decomposition, it can emit toxic fumes of SO_x.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Do not store near 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: 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 alkalis. 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.