

# MSDS

H.R. Simon and Company, Inc. (800) 638-9460  
3515 Marmenco Court  
Baltimore, Maryland 21230  
for chemical **Emergency: (800) 424-9300**

## Section 1 Identification:

**Chemical Name:** HS Manual Fixer      **Chemical Family:** Aqueous Solution  
**MSDS Number:** S50-128      S50-129      **Date:** 01/03  
S50-130      31701  
52596

## Section 2 Composition (Ingredients required):

	<b>CAS Number</b>	<b>ACGIH (TLV)</b>	<b>OSHA (PEL)</b>
Acetic Acid	64-19-7	25mg/m <sup>3</sup>	25mg/m <sup>3</sup>
Ammonium Thiosulfate	7783-18-8	-----	-----
Sodium Bisulfite	7681-57-4	5mg/m <sup>3</sup>	-----

## Section 3 Hazards Identification:

Warning! Contains Acetic Acid (64-19-7)  
Sodium Bisulfite (7681-57-4)  
Causes burns to eyes and skin.  
Vapor may be irritating to eyes.

## Section 4 First Aid Measures:

**Eyes:** Immediately flush eyes with water for fifteen minutes. Seek medical help.  
**Skin:** Remove contaminated clothing. Flush skin for fifteen minutes. If symptoms persist, seek medical help.  
**Ingestion:** Conscious subject: Immediately give large amounts of water and induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention.  
**Inhalation:** Remove subject to fresh air. If symptoms persist, seek medical help.

## Section 5 Fire Fighting Measures:

**Flash Point:** None  
**Extinguishing Media:** Use media for surrounding material  
**Fire Fighting Procedures:** No special procedures  
**Unusual Fire and Explosion Hazards:** None

## Section 6 Accidental Release Measures:

Small spills may be mopped up. Soak spill with saw dust, sand, oil dry, or any other absorbent material. Dispose of recovered material in accordance with all federal, state, and local regulations.

## Section 7 Handling and Storage:

No special procedures for handling and storage.

## Section 8 Exposure Controls:

NOISH approved respirator for mists. No special ventilation is necessary, except in small enclosed areas where a local exhaust fan should be used. Use latex neoprene gloves, safety glasses with side-shields or chemical goggles. Wear a chemical resistant apron

## Section 9 Physical Chemical Properties:

**Boiling Point:** >212°F      **Solubility in Water:** Complete  
**Appearance:** Clear Liquid      **Odor:** Slight ammonia odor  
**Specific Gravity:** 1.25 @15.5 °C      **pH Level:** 4.8 @25°C

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HS Manual Fixer

**Section 10 Stability and Reactivity:**

**Chemical Stability:** Stable  
**Incompatibility:** Strong alkaline materials **Decomposition Products:** Free Ammonia  
**Hazardous Polymerization:** Will not occur

**Section 11 Toxicology Information:**

Irritation to eyes, skin and respiratory tract. Ingestion and inhalation may cause shortness of breath, wheezing or coughing.  
May cause allergic reactions in some people. Inhalation may cause adverse reactions in susceptible individuals, especially asthmatics

**Section 12 Ecological Information:**

Product diluted with amounts of water is not expected to have any adverse environmental effects.

**Section 13 Disposal Considerations:**

Dispose of recovered material in accordance with federal, state and local regulations.

**Section 14 Transportation Information:**

For transportation regarding this product, contact H.R. Simon & Company, Inc.  
(800) 638-9460.

**Section 15 Regulatory Information:**

Materials known to state of California to cause cancer: None  
Materials known to state of California to cause adverse reproductive effects: None  
Carcinogenicity Classification (components present at 0.1% or more):  
International Agency for Research of Cancer (IARC): None  
American Conference of Governmental Industrial Hygienists (ACGIH): None  
National Toxicology Program (NTP): None  
Occupational Safety and Health Administration (OSHA): None

Chemicals subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments Reauthorization Act (SARA) of 1986 and 40 CFI Part 372: None

**Section 16 Other Data:**

**NFPA HAZARD CODES (0=LEAST; 4=MOST)**  
HEALTH=0  
FLAMMABILITY=0  
REACTIVITY=0  
SPECIFIC HAZARD=0

Note: This MSDS relates only to the material herein, and does not relate in combination with any other material or process. This MSDS is based on information provided by us and is believed to be accurate, although no guarantee or warranty is provided or implied by the company in this respect. Since the use of this product in the exclusive control of the user, it is the user's responsibility to determine the conditions of safe use. Such conditions must comply with all government regulations