

# 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 Developer Part 4  
**MSDS Number:** S50-074

**Chemical Family:** Aqueous Solution  
**Date:** 01/09

## Section 2 Composition (Ingredients required)

Name	%	CAS#	ACGIH(TLV)	OSHA(PEL)
Glutaraldehyde	<25°	111-30-8	0.2 ppm	0.2 ppm
Acetic Acid	2-4	64-19-7	10 ppm	10 ppm
Sodium Bisulfite	2-4	7681-57-4	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

## Section 3 Hazards Identification:

**Danger! Contains:** Glutaraldehyde (111-30-8), Acetic Acid (64-19-7)  
Causes severe skin and eye burns  
Harmful if swallowed. Vapor Irritating to eyes and respiratory tract  
May cause allergic skin reaction

## 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. Do not induce vomiting. Unconscious person: call for medical help immediately. Do not give anything by mouth to an unconscious person  
**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:** Full turnout clothing and SCBA(Self-Contained Breathing Apparatus)  
**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 material in accordance with all federal, state and local regulations.

## Section 7 Handling and Storage:

Wear personal protective equipment when handling this material. Use latex, rubber, or neoprene gloves, safety glasses with side shields, chemical resistant apron and respirator.  
No special storage problems.

## Section 8 Exposure Controls:

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

## Section 9 Physical Chemical Properties:

**Boiling Point:** >212 °F  
**Appearance:** Yellow Liquid

**Solubility in Water:** Complete  
**Odor:** Aldehyde Odor

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**Specific Gravity:** 1.1 @ 15.5°C

**pH Level:** 3.0 @ 25°C

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## Section 10 Stability and Reactivity:

## HS Developer Part 4

**Chemical stability:** stable. **Incompatibility:** Strong oxidizing agents, alkaline materials, or strong acids.  
**Decomposition Products:** carbon monoxide and/or carbon dioxide.  
**Hazardous Polymerization:** will not occur

## Section 11 Toxicology Information:

**Ingestion:** Toxic. May cause irritation of the mouth, throat, esophagus and stomach.  
**Inhalation:** Vapor may be irritating to respiratory tract. May cause allergic reactions in some people. Inhalation may cause adverse reactions in susceptible individuals, especially asthmatics.  
**Skin Contact:** May cause irritation to skin  
**Eye Contact:** Causes irritation to eyes. May cause conjunctivitis or redness to eyes.

## Section 12 Ecological Information:

Small quantities diluted with water are not expected to have an adverse impact on the environment.

## Section 13 Disposal Considerations:

Dispose **of 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=1

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 is 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

