

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: RAK Developer Systems Cleaner Part A **Chemical Family:** Aqueous Acidic Solution
MSDS Number: S70-018A **Date:** 01/06

Section 2 Composition (Ingredients required)

Name	%	CAS Number	ACGIH(TLV)	OSHA(PEL)
Sodium Bisulfate	1-5	10034-88-5	5mg/m ³	5mg/m ³
Potassium Permanganate	<1	7722-64-7	5mg/m ³	5mg/m ³

Section 3 Hazards Identification:

Symptoms of Overexposure: Eye irritation or burns, skin irritation or burns, gastrointestinal irritation and burns.

Medical Conditions Aggravated by Exposure: None known

Primary Routes of Entry: Eyes, skin, ingestion, inhalation

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. 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: No special procedures
Unusual Fire and Explosion Hazards: none

Section 6 Accidental Release Measures:

Soak spill with saw dust, sand, oil dry, or any other absorbent material. Dispose material of recovered material in accordance with all federal, state and local regulations. Flush area with water.

Section 7 Handling and Storage:

No special storage requirements.

Section 8 Exposure Controls:

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 chemicals goggles. Wear a chemical resistant apron.

Section 9 Physical Chemical Properties:

Boiling Point: >212°C	Solubility in Water: Complete
Appearance: Brown-purple liquid	Odor: none
Specific Gravity: 1.00 @ 15.5°C	pH Level: 2.8 @ 25°C

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Section 10 Stability and Reactivity:

RAK Developer Systems Cleaner Part A

Chemical stability: stable **Incompatibility:** avoid strong bases **Decomposition Products:** None
Hazardous Polymerization: will not occur

Section 11 Toxicology Information:

Eyes: May irritate or burn eyes.
Skin: May irritate or burn skin
Ingestion: May irritate the gastrointestinal tract
Inhalation: May cause allergic reactions in some people. Inhalation may cause adverse reactions in susceptible individuals, especially asthmatics.

Section 12 Ecological Information:

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

Section 13 Disposal Considerations:

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

Section 14 Transportation Information:

For transportation information 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 reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR 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 in the exclusive control of the user, it is the user's responsibility to determine. Such conditions must comply with all government regulations