

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY *(as Used on Label and List)*  
RA-3300 FIXER CONCENTRATE PART A  
107-40, 107-24  
AQUEOUS MIXTURE

**NFPA RATING:**  
**HEALTH: 1**  
**FLAMMABILITY: 0**  
**REACTIVITY: 0**

**Section I**

Manufacturer's name SOLUTEK CORPORATION	Emergency Telephone Number (617)445-5335
Address <i>(Number, Street, City, State and ZIP Code)</i>	Telephone Number for Information (617)445-5335
94 SHIRLEY STREET	Date Prepared 3/5/96
BOSTON, MA 02119	Signature of Preparer <i>(optional)</i> DIRECTOR OF RESEARCH

**Section II—Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
ACETIC ACID 64-19-7	25MG/M <sup>3</sup>	25MG/M <sup>3</sup>	N/A	<10

**Section III—Physical/Chemical Characteristics**

Boiling Point OVER 100°C	Specific Gravity (H <sub>2</sub> O = 1) 1.35
Vapor Pressure (mm Hg)	Melting Point
Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)
Solubility in Water 100%	
Appearance and Odor COLORLESS, CLEAR LIQUID WITH SLIGHT VINEGAR ODOR	

**Section IV—Fire and Explosion Hazard Data**

Flash Point (Method Used) NONE	Flammable Limits	LEL NONE	UEL NONE
Extinguishing Media USE EXTINGUISHING MEDIA APPLICABLE TO THE PRIMARY CAUSE OF THE FIRE.			
Special Fire Fighting Procedures EVACUATE PERSONNEL TO A SAFE AREA REMOVED AND UPWIND OF THE FIRE. FIRE OR EXCESSIVE HEAR MIGHT CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.			
Unusual Fire and Explosion Hazards THIS PRODUCT IS NON-COMBUSTIBLE			

(Reproduce locally)

OSHA 174 Sept. 1985

**Section V—Reactivity Data**

Stability	Unstable		Conditions to Avoid N/A
	Stable X		

Incompatibility (*Materials to Avoid*) STRONG BASES AND ACIDS

Hazardous Decomposition or Byproducts AMMONIA (BASES), SULFUR DIOXIDE (ACIDS)

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X		

**Section VI—Health Hazard Data**

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
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Health Hazards (*Acute and Chronic*) CAUSES EYE AND SKIN IRRITATION. INHALATION OF MIST OR DRIED RESIDUE CAN IRRITATE THE RESPIRATORY TRACT. INGESTION CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, HEADACHE AND/OR WEAKNESS

Carcinogenicity NONE	NTP?	IARC Monographs?	OSHA Regulated?
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Signs and Symptoms of Exposure IRRITATION OF EYES, SKIN, RESPIRATORY TRACT, OR MUCOUS MEMBRANE. DERMATITIS, COUGHING, NAUSEA, DIZZINESS, HEADACHE.

Medical Conditions  
Generally Aggravated by Exposure

Emergency and First Aid Procedures IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. SKIN: FLUSH SKIN WITH COPIOUS AMOUNT OF WATER. EYE: FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON. REFER ALL CASES OF INGESTION TO A LOCAL POISON CONTROL CENTER OR A PHYSICIAN. VOMITING SHOULD NORMALLY BE INITIATED ONLY ON THEIR ADVICE AND BY THE MEANS THEY SPECIFY.

**Section VII—Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spilled CONTAIN THE SPILL. NEUTRALIZE WITH SODIUM BICARBONATE. IF LOCAL EFFLUENT LAWS PERMIT, FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER.

Waste Disposal Method IF PERMITTED, FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. PRETREATMENT MAY BE REQUIRED. OR, DISPOSE OF IN A PROVED AND PERMITTED BIOLOGICAL TREATMENT SYSTEM OR AN APPROVED AND PERMITTED DEEPWELL OR LANDFILL.

Precautions to Be Taken in Handling and Storing KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. DO NOT STORE OR CONSUME FOOD, DRINKS, OR TOBACCO IN AREAS WHERE THEY MIGHT BE CONTAMINATED BY THIS PRODUCT. AVOID STORAGE OR CONTACT WITH STRONG BASES OR ACIDS.

Other Precautions

**Section VII—Control Measures**

Respiratory Protection (*Specify Type*)

Ventilation	Local Exhaust 10 ROOM VOLUMES PER HOUR	Special
	Mechanical ( <i>General</i> )	Other

Protective Gloves RUBBER OR PLASTIC GLOVES

Eye Protection CHEMICAL SPLASH GOGGLES

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Other Protective Clothing or Equipment

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Work/Hygienic Practices

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