

## 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



Forms Published by WindowChem (707)864-0846

## IDENTITY

**SOLUTION AR-25**

Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name

**KOCOUR COMPANY**

Emergency Telephone Number

**1-800-424-9300**

Address (Number, Street, City, State, and ZIP Code)

**4800 S. ST. LOUIS AVE.**

Telephone Number for Information

**1-773-847-1111****CHICAGO, IL 60632**

Date Prepared

**01/26/2007**

Signature of Preparer (optional)

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommendec	% (optional)
HYDROCHLORIC ACID				10.00%
CAS# 7647-01-0				
WATER				BALANCE
CAS# 7732-18-5				

THE pH OF SOLUTION R-50 IS LESS THAN 1.0.

## Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	> 1.00
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation rate (Butyl Acetate = 1)	N/A

Solubility in Water

COMPLETE

Appearance and Odo

COLORLESS SOLUTION WITH A SLIGHT PUNGENT ODOR.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NON-FLAMMABLE LIQUID		N/A	N/A

Extinguishing Media

USE SUITABLE MEANS FOR SURROUNDING FIRE.

Special Firefighting Procedure:

WEAR SELF CONTAINED BREATHING APPARATUS AND PROPER PERSONAL PROTECTION FOR SURROUNDING

FIRE.

Unusual Fire and Explosion Hazard:

NONE KNOWN

**Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	XX	

## Incompatibility (Materials to Avoid)

CYANIDE AND CAUSTIC SOLUTIONS.

## Hazardous Decomposition or Byproducts

CAN RELEASE TOXIC CYANIDE FUMES IF SOLUTION IS IN CONTACT WITH CYANIDES.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
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## Health Hazards (Acute and Chronic)

SKIN CONTACT CAN CAUSE IRRITATION OR BURNS. PROLONGED CONTACT CAN CAUSE TISSUE DAMAGE. F

CONTACT CAN CAUSE PERMANENT DAMAGE.

Carcinogenicity	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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## Signs and Symptoms of Exposure

RED OR INFLAMED SKIN WITH A POSSIBLE BURNING SENSATION.

## Medical Conditions

Generally Aggravated by Exposure OPEN CUTS OR ABRASIONS.

## Emergency and First Aid Procedure

(SKIN & EYES) FLUSH WITH PLENTY OF WATER 15 MINS; INCLUDING UNDER THE EYELIDS. (INGESTION) G

OR MILK TO DILUTE. SEEK IMMEDIATE MEDICAL ATTENTION.

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

## Steps to be Taken in Case Material is Released or Spilled

CONTAIN SPILL AND NEUTRALIZE WITH A SUITABLE AGENT (ie; BAKING SODA) TO A pH OF 7.0. ABSORB

INERT MATERIAL (ie; SAND, etc.) AND HOLD FOR PROPER DISPOSAL.

## Waste Disposal Method

ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

## Precautions to be Taken in Handling and Storage

DO NOT STORE IN DIRECT SUNLIGHT. KEEP AT ROOM TEMPERATURE WITH CAP TIGHTLY CLOSED

## Other Precautions

STORE AWAY FROM CYANIDE AND CAUSTIC SOLUTIONS.

**Section VIII - Control Measures**

## Respiratory Protection (Specify Type)

NOT REQUIRED IN SOLUTION FORM.

Ventilator	Local Exhaust NOT REQUIRED	Special NO APPLICABLE INFORMATION FOUND
	Mechanical (General) NOT REQUIRED	Other NO APPLICABLE INFORMATION FOUND

## Protective Gloves

ADEQUATE TO PROTECT THE SKIN.

## Other Protective Clothing or Equipment

ADEQUATE TO PROTECT THE CLOTHING (ie; LAB COAT OR APRON).

## Work/Hygenic Practices

SAFETY GOGGLES SHOULD BE WORN TO PROTECT THE EYES. WASH WITH SOAP & WATER AFTER USE