

## 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-45

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 CO

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 Recommended	% (optional)
METHYL ALCOHOL-	200ppm (262 mg/m3)	OSHA TWA		80-100%
CAS# 67-56-1	250ppm (328 mg/m3)	OSHA STEL		
	200ppm (262 mg/m3)	NIOSH TWA		
	250ppm (262mg/m3)	NIOSH STEL		

(METHYL ALCOHOL IS SUBJECT TO SARA SECTION 313 ANNUAL RELEASE REPORTING.

CERCLA SECTION 103 REPORTABLE QUANTITY- 5000 POUNDS).

METHYL RED-

&lt; 1.00%

CAS#493-52-7

THE pH IS APPROXIMATELY 6.0.

## Section III - Physical/Chemical Characteristics

Boiling Point	149 DEG.F	Specific Gravity (H2O = 1)	< 1.00
Vapor Pressure (mm Hg)	97.25mmHg	Melting Point	N/A
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water

COMPLETELY SOLUBLE IN WATER.

Appearance and Odor

RED COLORED SOLUTION WITH AN ALCOHOL ODOR.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
AS METHYL ALCOHOL 52 DEG. F , CLOSED CUP		14	6 36

Extinguishing Media

CARBON DIOXIDE, DRY CHEMICAL OR FOAM.

Special Firefighting Procedure:

WEAR PROPER PERSONAL PROTECTION AND SELF CONTAINED BREATHING APPARATUS.

Unusual Fire and Explosion Hazard:

FIRE OR EXPLOSION HAZARD WHEN EXPOSED TO HEAT, SPARKS,

OPEN FLAME OR OXIDIZING AGENTS.

**Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid NO APPLICABLE INFORMATION FOUND.
	Stable	XX	

## Incompatibility (Materials to Avoid)

OXIDIZING AGENTS.

## Hazardous Decomposition or Byproducts

MAY RELEASE TOXIC FUMES UNDER FIRE CONDITIONS.

Hazardous Polymerization	May Occur		Conditions to Avoid NO APPLICABLE INFORMATION FOUND.
	Will Not Occur	XX	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
--------------------	--------------------	--------------	-------------------

## Health Hazards (Acute and Chronic)

CAN CAUSE SKINN IRRITATION ON CONTACT. PROLONGED CONTACT CAN CAUSE DERMITITIS

PROLONGED INHALATION CAN CAUSE NAUSEA AND/OR DIZZINESS.

INGESTION CAN CAUSE BLINDNESS OR POSSIBLY BE FATAL.

Carcinogenicity	NTP? NON CARCINOGENIC	IARC Monographs?	OSHA Regulated?
-----------------	--------------------------	------------------	-----------------

## Signs and Symptoms of Exposure

RED OR INFLAMED SKIN, NAUSEA OR DIZZINESS.

## Medical Conditions

Generally Aggravated by Exposure OPEN CUTS OR SKIN ABRASIONS. EXCESSIVE INHALATION

CAN IRRITATE THE UPPER RESPIRATORY TRACT.

## Emergency and First Aid Procedure

(INHALATION) REMOVE TO FRESH AIR (SKIN &amp; EYES) FLUSH WITH WATER 15 MINS; INCLUDING UNDEI

EYELIDS (INGESTION) INDUCE VOMITING &amp; SEEK IMMEDIATE MEDICAL ATTENTION.

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

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

CONTAIN SPILL AND ABSORB WITH AN INERT MATERIAL (ie; SAND) .

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 AWAY FROM HEAT SOURCES AND SOURCES OF IGNITION

STORE AWAY FROM OXIDIZING AGENTS.

## Other Precautions

KEEP AT ROOM TEMPERATURE WITH CAP TIGHTLY CLOSED.

**Section VIII - Control Measures**

## Respiratory Protection (Specify Type)

NIOSH APPROVED RESPIRATOR ADEQUATE TO REDUCE EXPOSURE TO BELOW LIMITS

Ventilator	Local Exhaust LISTED IN SECTION II.	Special NO APPLICABLE INFORMATION FOUND
	Mechanical (General) FUME HOOD	Other NO APPLICABLE INFORMATION FOUND.
Protective Gloves	ADEQUATE TO PROTECT THE SKIN.	EYE PROTECTION

SAFETY GOGGLE;

## Other Protective Clothing or Equipment

LAB COAT OR APRON TO PROTECT THE CLOTHING.

## Work/Hygenic Practices

WASH WITH SOAP AND WATER AFTER USE. FOLLOW ESTABLISHED SAFETY POLICIES.