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NALCO CHEMICAL COMANY -- SOLUTION S 0294 NALCO 39-1 -- 6810-01-115-9031

===== Product Identification =====

Product ID:SOLUTION S 0294 NALCO 39-1

MSDS Date:05/15/1989

FSC:6810

NIIN:01-115-9031

MSDS Number: BGMLZ

=== Responsible Party ===

Company Name:NALCO CHEMICAL COMANY

Address:ONE NALCO CENTER

City:NAPERVILLE

State:IL

ZIP:60563-1198

Country:US

Info Phone Num:708-305-1000

Emergency Phone Num:708-

920-1510(24 HOURS)

Preparer's Name:RICKY A. STACKHOUSE, PHD

CAGE:89524

=== Contractor Identification ===

Company Name:KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721

City:BRISTOL

State:PA

ZIP:19007-3517

Country:US

Phone:215-736-2000

CAGE:7Z016

Company Name:NALCO CHEMICAL CO, FIELD SYSTEMS DIV

Address:6233 W 65TH STREET

Box:City:CHICAGO

State:IL

ZIP:60638

Country:US

Phone:312-496-7000

CAGE:0EGT6

Company Name:ONDEO NALCO COMPANY

Address:ONDEO NALCO CENTER

Box:City:NAPERVILLE

State:IL

ZIP:6056

3-1198
Country:US
Phone:(630) 305-1000
CAGE:89524

===== Composition/Information on Ingredients =====

Ingred Name:ISOPROPYL ALCOHOL (SARA III)
CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: 99%+
Other REC Limits:NONE SPECIFIED
OSHA PEL:400 PPM/500 STEL
ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:BROMOCRDSOL GREEN (DISSOLVED IN ISOPROPANOL)
CAS:76-60-8
RTECS #:SJ7456000

Ingred Name:METHYL RED (DISSOLVED IN ISOPROPANOL)
CAS:493-52-7
RTECS #:DG8960000

===== Haza
rds Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) 5,000 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-INGESTION:MAY CAUSE DRUNKENNESS,
DROWSINESS,INCOORDINATION.EYE/SKIN:CAN CAUSE MODERATE IRRITATION.
INHALATION:PROLONGED INHALATION OF MIST/VAPOR MAY CAUSE
NAUSEA,DIZZINESS, VOMITING & UNCONSCIOUSNESS.CHRONIC-DROWSINESS OR
DRUNKENNESS.

Explanation
of Carcinogenicity:THIS CHEMICAL IS NOT LISTED AS HAVING
ANY EVIDENCE OF BEING CARCINOGENIC.
Effects of Overexposure:INGESTION MAY CAUSE DRUNKENNESS, DROWSINESS,
INCOORDINATION. CAN CAUSE MODERATE EYES AND SKIN IRRITATION.
PROLONGED INHALATION OF MIST/VAPOR MAY CAUSE NAUSEA, DIZZINESS,
VOMITING & UNCONSCIOUSNESS.
Medical Cond Aggravated by Exposure:A REVIEW OF AVAILABLE DATA DOES NOT
IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

===== First Aid Measures

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First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES. INGESTION:DO NOT INDUCE VOMITING.IF CONSCIOUS,DRINK WATER.INHALATION:REMOVE FROM EXPOSURE.IF BREATHING IS DIFFICULT/ABSENT,PROVIDE CARDIOPULMONARY SUPPORT.EYE/SK IN:FLUSH WITH WATER FOR 15 MINUTES.HOLDEYE LIDS OPEN.

===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:56.0F,13.3C

Autoignition Temp:Autoignition Temp Text:860F

Lower Limits:2.0

Upper Limits

:12.0

Extinguishing Media:USE CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL OR OTHER EXTINGUISHING AGENT SUITABLE FOR CLASS B FIRES.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS OPERATED IN+PRESSURE. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

===== Accidental Release Measures =
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Spill Release Procedures:FIRE HAZARD:ELIMINATE ALL SOURCES OF IGNITION. EVACUATE AREA. VENTILATE AREA. STOP RELEASE. DIKE TO CONTAIN SPILL. WEAR PROPER SAFETY EQUIPMENT. IF AMOUNT IS LARGE, REMOVE LIQUID BY VACUUM. IF SMALL, ABSORB ON INERT MATERIAL (CLAY,SOIL).

Neutralizing Agent:DILUTE WITH WATER

===== Handling and Storage =====

Handling and Storage Precautions:STORAGE-STORE IN TIGHTLY CLOSED CONTAINERS IN FLAMMABLE LIQUID STORAGE ROOM/CABINET.AVOID EXCESSIVE HEAT.

Other Precautions:DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. KEEP AWAY FROM OXIDIZING AGENTS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF LEVELS EXCEED THE RECOMMENDED HEALTH STANDARDS, WEAR A NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR. FOR EMERGENCY USE, WEAR A NIO

SH APPROVED SELF-CONTAINED BREATHING
APPARATUS.

Ventilation:IF LEVELS EXCEED THE RECOMMENDED HEALTH STANDARDS, USE
LOCAL EXHAUST OR GENERAL DILUTION VENTILATION.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:SAFETY GLASSES/FACE SHIELD

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE
AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR
USING TOILET FACILITIES. WASH CONTAMIN
ATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

39-1 - BROM CRESOL GREEN AND METHYL RED DISSOLVED IN ISOPROPANOL.

===== Physical/Chemical Properties =====

HCC:F2

Boiling Pt:=82.2C, 180.F

Spec Gravity:0.79

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR AMBER TO ORANGE LIQUID, ISOPROPANOL ODOR

Percent Volatiles by Volume:>99

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZ

ING AGENTS (EG. CHLORINE, PEROXIDES, CHROMATES, NITRIC
ACID, PERCHLORATES, CONCEN. OXYGEN, PERMANGANATES)

Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER
SOURCES OF IGNITION

Hazardous Decomposition Products:MAY EMIT CARBON MONOXIDE, CARBON
DIOXIDE AND UNIDENTIFIED ORGANICS.

===== Disposal Considerations =====

Waste Disposal Methods:INSURE CONFORMITY WITH GOVERNMENT DISPOSAL
REGULATIONS. USE CERTIFIED VENDOR FOR DISPOSAL BY I
NCINERATION.

HAZARDOUS WASTE D001.

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