

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

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

Product ID:SOLUTION S 0294 NALCO 39-1

MSDS Date:01/18/1996

FSC:6810

NIIN:01-115-9031

MSDS Number: CJSHQ

=== Responsible Party ===

Company Name:NALCO CHEMICAL COMPANY

Address:ONE NALCO CENTER

City:NAPERVILLE

State:IL

ZIP:60563-1198

Country:US

Info Phone Num:630-305-1000

Emergency Phone Num:M

ED:800-462-5378/I-M-ALERT

Preparer's Name:WILLIAM S. UTLEY, 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

Contract Num:SP0450-00-M-D055

CAGE:7Z016

Company Name:ONDEO NALCO COMPANY

Address:ONDEO NALCO CENTER

Box:City:NAPERVILLE

State:IL

ZIP:60563-1198

Country:US

Phone:(630) 305-1000

Contract Num:SP0450-00-M-D489

CAGE:89524

=====  
Composition/Information  
=====

on Ingredients =====

Ingred Name:ISOPROPYL ALCOHOL (SARA III)  
CAS:67-63-0  
RTECS #:NT8050000  
> Wt:99.  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM (980 MG/M3)  
ACGIH TLV:400 PPM  
ACGIH STEL:500 PPM

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, ALBINO RATS) 5,840 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:EYE CONTACT: VAPOR

S CAN CAUSE

IRRITATION. LIQUIDS AND MIST CAN CAUSE INJURY OR DAMAGE. SKIN: MAY CAUSE MODERATE IRRITATION WITH PROLONGED CONTACT. INHALATION: PROLONGED INHALATION OF MIST OR VAPOR MAY CAUSE NAUSEA, DIZZINESS, LIGHT-HEADEDNESS, VOMITING, OR UNCONSCIOUSNESS DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN. ACUTE: INHALATION OF HIGH CONCENTRATIONS OF PRODUCT CAN CAUSE NAUSEA, DIZZINESS, VOMITING, STUPOR OR UNCONSCIOUSNESS. CHRONIC: PROLONGED SKIN C

ONTACT WITH PRODUCT CAN CAUSE DRY SKIN AND DEFFATTING, RESULTING IN IRRITATION AND DERMATITIS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYES: IRRITATION. SKIN: MODERATE IRRITATION, DRY SKIN, DEFATTING, AND DERMATITIS. INHALATION: PROLONGED INHALATION OF MIST OR VAPOR MAY CAUSE NAUSEA, DIZZINESS, LIGHT-HEADEDNESS, VOMITING, INCONSCIOUSNESS, AND STUPOR.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECT OF THIS SUBSTANCE.

===== First Aid Measures =====

First Aid:EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. CALL A PHYSICIAN AT ONCE. SKIN: FUSH WITH WATER FOR 15 MINUTES. INGESTION: DO NOT INDUCE VOMITING. GIVE WATER. CALL A PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. TREAT SYMPTOMS. CALL A PHYSICIAN. NOTE TO PHYSICIAN: BASED

ON THE

INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITION.

CAUTION: IF UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITTING OR GIVE WATER.

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

Flash Point Method:TCC

Flash Point:=12.2C, 54.F

Autoignition Temp:=460.C, 860.F

Lower Limits:2.0

Upper Limits:12.0

Extinguishing Media:BASED ON NFPA GUIDE, USE DRY CHEMICAL, FOAM, CARBON

DIOXIDE OR OTHER EXTINGUISHING AGENT SUITABLE FOR CLASS B FIRES. FOR LARGE FIRES, USE WATER SPRAY OR FOG, THOROUGHLY DRENCHING.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. USE WATER TO COOL FIRE EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:NOT APPLICABLE.

===== Accidental Release Measures =====

Spill Release Procedures:IN CASE OF TRANSPORTATION ACCIDENTS, CALL

(800) I-M-ALERT (800-462-5378). SMALL SPILLS: CONTAIN WITH ABSORBENT MATERIAL, SUCH AS CLAY, SOIL OR ANY COMMERCIALY AVAILABLE ABSORBENT. COMBINE WITH IGNITABLE PLANT WASTES. KEEP THE SPILL AWAY FROM HEAT, SPARKS, FLAMES AND WELDING OPERATIONS. VENTILATE AREA AND EVACUATE EMPLOYEES FROM EXPOSURE IF THE AIRBORNE CONCENTRATION EXCEEDS THE TLV.

Neutralizing Agent:NOT RELEVANT.

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

Handling and Storage Pre

cautions:HANDLING: AVOID CONTACT WITH SKIN,

EYES, AND CLOTHING. STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:EMPTY PRODUCT CONTAINERS SHOULD BE PUNCTURED, IF PLASTIC, AND PLACED IN THE GARBAGE COLLECTION CONTAINER.

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

Respiratory Protection:IF IT IS POSSIBLE TO GENERATE SIGNIFICANT LEVELS OF VAPORS OR MISTS, A NIOSH APPROVED OR EQUIVALENT ORGANIC VAPOR CARTRIDGE RESPIRATOR IS RECOMMENDED.

Vent

ilation:GENERAL VENTILATION IS RECOMMENDED.

Protective Gloves:USE IMPERMEABLE GLOVES: NEOPRENE, NITRILE, PVC,  
NATURAL RUBBER, VITON & BUTYL.

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:THE AVAILABILITY OF AN EYE WASH FOUNTAIN AND  
SAFETY SHOWER IS RECOMMENDED.

Work Hygienic Practices:IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING &  
THOROUGHLY WASH THE AFFECTED AREA. LAUNDER CONTAMINATED CLOTHING  
BEFORE REUSE.

Supplemental Safety and Health

FOR LARGE SPILLS, ENT

RY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL

SPACES WITH INADEQUATE VENTILATION, A POSITIVE PRESSURE,  
SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

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

HCC:F2

NRC/State Lic Num:NOT RELEVANT.

Boiling Pt:=82.2C, 180.F

B.P. Text:@760 MM HG

Vapor Pres:NOT PROVIDED.

Spec Gravity:0.79 @ 60F

pH:NOT APPLICABLE.

Viscosity:NOT PROVIDED.

Evaporation Rate & Reference:NOT PROVIDED.

Solubility in Water:COMPLETE

Appearance an

d Odor:CLEAR AMBER TO ORANGE LIQUID, ISOPROPANOL ODOR

Percent Volatiles by Volume:>99

Corrosion Rate:NOT PROVIDED.

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

Stability Indicator/Materials to Avoid:YES

CONTACT WITH STRONG OXIDIZERS (E.G. CHLORINE, PEROXIDES, CHROMATES,  
NITRIC ACID, PERCHLORTES, CONCENTRATED OXYGEN, PERMANGANATES) WHICH  
CAN GENERATE HEAT, FIRES, EXPLOSIONS AND THE RELEASE OF TOXIC  
FUNES.

Stability Condition to Avoid:AVOID HEAT, SPARKS, AND OP

EN FLAME.

Hazardous Decomposition Products:NOT PROVIDED.

===== Toxicological Information =====

Toxicological Information:ACUTE ORAL LD50 ALBINO RATS = 5,840 MG/KG.  
ACUTE DERMAL LD50 ALBINO RABBITS = 13 GRAMS/KG . ACUTE INHALATION  
LC50 ALBINO RATS = 12,000 PPM (8-HOURS). POTENTIAL HUMAN HAZARD IS  
HIGH.

===== Ecological Information =====

Ecological:POTENTIAL ENVIRONMENTAL HAZARD= LOW. BASED ON NALCO'S  
RECOMMENDED APPLICATION, THE POTENTIAL ENVIRONMENTAL EXPOSURE = LOW.

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

Waste Disposal Methods:IF THE PRODUCT BECOMES A WASTE, IT MEETS THE  
CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER RESOURCE  
CONSERVATION AND RECOVERY ACT (RCRA). HAZARDOUS WASTE D001. AS A  
HAZARDOUS LIQUID WASTE, COMBINE WITH OTHER PLANT IGNITABLE WASTES  
FOR DISPOSAL. CAN BE INCINERATED IN ACCORDANCE WITH LOCAL, STATE  
AND FEDERAL REGULATIONS.

=====

===== MSDS Transport Information =====

Transport Information:REGULATED AS: ISOPROPANOL,3,UN1219,II.

===== Regulatory Information =====

SARA Title III Information:CERCLA/SUPERFUND, 40 CFR 117, 302:  
NOTIFICATION OF SPILLS OF THIS PRODUCT IS NOT REQUIRED.  
SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE  
III) - SECTIONS: 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):  
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND  
B. 311 AND 312: IMMEDIATE (ACUTE) HEALTH HAZARD AND FIRE HAZARD.  
THE EPA CURRENT THRESHOLDS ARE: 500 POUNDS OR THE THRESHOLD  
PLANNING QUANTITY (TPQ), WHICHEVER IS LOWER, FOR EXTREMELY  
HAZARDOUS SUBSTANCES AND 10,000 POUNDS FOR ALL OTHER HAZARDOUS  
CHEMICALS. 313 (40 CFR 372): NOT LISTED ON THE LIST OF TOXIC CHEMICALS.

Federal Regulatory Information:TOXIC SUBSTANCE CONTROL ACT (TSCA): THE  
CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8 (B)

INVENTORY

LIST (40 CFR 710). CLEAN WATER ACT 40 CFR 401.15, 40 CFR 116: NOT LISTED. CLEAN AIR ACT SEC. 111 (40 CFR 60), 112 (40 CFR 61, 1990 AMENDMENTS), SEC. 611 (40 CFR 82, CLASS I AND II OZONE DEPLETING SUBSTANCES): THIS PRODUCT CONTAINS ISOPROPANOL - SECTION 111.

State Regulatory Information: CALIFORNIA PROPOSITION 65: NONE OF THE CHEMICALS ON THE CURRENT PROPOSITION 65 LIST ARE KNOWN TO BE PRESENT IN THIS PRODUCT. STATE RIGHT TO KNOW LAWS: REGULATED IN THOSE STATE

S USING THE TLV FOR ISOPROPANOL AS A CRITERIA FOR LISTING.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.